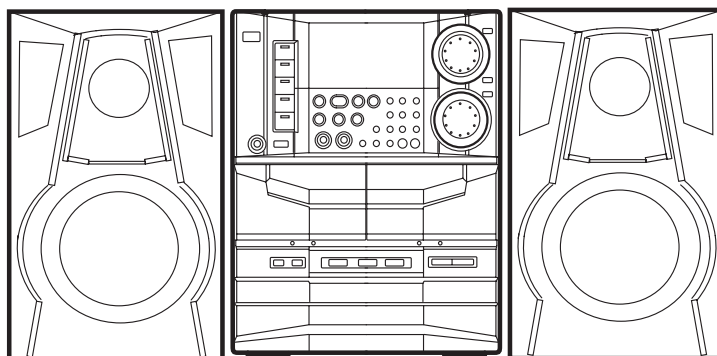




SERVICE MANUAL

COMPACT DISC
STEREO SYSTEM

BASIC TAPE MECHANISM : 2ZM-3MK2 YPR7NM
BASIC CD MECHANISM : AZG-1 VZD3RNDM

SYSTEM	CD CASSEIVER	MAIN SPEAKER	SATELLITE SPEAKER	REMOTE CONTROLLER
NSX-VC87	CX-NVC87	SX-WNH83	SX-S80	RC-ZAS07

- This Service Manual contains information about the difference between NSX-VC87 (HR) and NSX-VC88 (HR). If requiring other information, see Service Manual of NSX-VC88 (HR) (S/M Code No. 09-005-428-7R1).
- If requiring information about the CD mechanism, see Service Manual of AZG-1 VZD3RNDM, (S/M Code No. 09-001-335-3NG).

SPECIFICATIONS

<FM tuner section>

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	13.2 dBf
Antenna terminals	75 ohms (unbalanced)

<MW tuner section>

Tuning range	531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710kHz (10 kHz step)
Usable sensitivity	350 µV/m
Antenna	Loop antenna

<SW tuner section>

Tuning range	5.730 MHz to 17.900 MHz
Antenna	Wire antenna

<Amplifier section>

Mid-high frequency amplifier

Power output	Rated: 35 W + 35 W (8 ohms, T.H.D. 1 %, 1 kHz) Reference: 45 W + 45 W (8 ohms, T.H.D. 10 %, 1 kHz)
Total harmonic distortion	0.1 % (30 W, 1 kHz, 8 ohms, DIN AUDIO)

Low frequency amplifier

Power output	Rated: 105 W + 105 W (6 ohms, T.H.D. 1 %, 120 Hz) Reference: 135 W + 135 W (6 ohms, T.H.D. 10 %, 120 Hz)
Total harmonic distortion	0.1 % (100 W, 120 Hz, 6 ohms, DIN AUDIO)

Satellite amplifier

Power output	Rated: 4 W + 4 W (8 ohms, T.H.D. 1 %, 1 kHz) Reference: 5 W + 5 W (8 ohms, T.H.D. 10 %, 1 kHz)
Total harmonic distortion	0.1 % (3 W, 1 kHz, 8 ohms, DIN AUDIO)

Inputs

VIDEO/AUX: 316 mV (adjustable)
MD: 316 mV (adjustable)
MIC 1, MIC 2: 1.0 mV (10 kohms)

Outputs

SPEAKERS HIGH FREQ:
accept speakers of 8 ohms or more
SPEAKERS LOW FREQ:
accept speakers of 6 ohms or more
SATELLITE SPEAKERS:
accept speakers of 8 ohms or more
SURROUND SPEAKERS:
accept speakers of 8 ohms to 16 ohms
VIDEO OUT: 1.0 Vp-p (75 ohms)
LINE OUT: 210 mV
PHONES (stereo jack): accept
headphones of 32 ohms or more

<Cassette deck section>

Track format	4 tracks, 2 channels stereo
Frequency response	CrO ₂ tape: 50 Hz – 16000 Hz Normal tape: 50 Hz – 15000 Hz
Recording system	AC bias
Heads	Deck 1: Playback head x 1 Deck 2: Recording/playback head x 1, erase head x 1

<Compact disc player section>

Laser	Semiconductor laser (λ = 780 nm)
D-A converter	1 bit dual
Signal-to-noise ratio	85 dB (1 kHz, 0 dB)
Harmonic distortion	0.05 % (1 kHz, 0 dB)
Wow and flutter	Unmeasurable
Video signal	NTSC/PAL color format (selectable)
Video data	MPEG 1
Audio data	MPEG 1, LAYER 2

<General>

Power requirements	120 V/220–230 V/240 V AC (switchable), 50/60 Hz
Power consumption	255 W
Power consumption in standby mode	If the power-economizing mode is ECO OFF: 33 W If the power-economizing mode is ECO ON or ECO AUTO: 0.9 W

Dimensions of main unit (W x H x D)

Weight of main unit	12.0 kg
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<Main speakers SX-WNH83>

Speaker system	3 way, built-in subwoofer (magnetic shielded type)
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Speaker units	Subwoofer: 200 mm cone type Full range: 120 mm cone type Super tweeter: 20 mm ceramic type
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Impedance	6 ohms/8 ohms
Sensitivity	87 dB/W/m
Dimensions (W x H x D)	240 x 324 x 285 mm
Weight	5.7 Kg

<Satellite speakers SX-S80>

Speaker system	Full range (magnetic shielded type)
Speakers units	80 mm cone type
Impedance	8 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W x H x D)	100 x 327 x 105 mm (with pedestal) 100 x 190 x 81 mm (without pedestal)
Weight	0.6 kg

• Design and specifications are subject to change without notice.

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ELECTRICAL MAIN PARTS LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC				C22	87-016-658-000		CAP,E 4700-35 M SMG
	8A-NH7-601-110		C-IC,LC876572V-5S07	C25	87-010-406-080		CAP, ELECT 22-50V
	87-A21-418-010		IC,STK490-340	C26	87-010-406-080		CAP, ELECT 22-50V
	87-A21-018-040		C-IC,M65849BFP631D	C27	87-010-406-080		CAP, ELECT 22-50V
	87-A21-397-010		IC,STK490-070	C28	87-010-406-080		CAP, ELECT 22-50V
	87-A20-914-010		IC,SPS-442-1-F				
	87-A20-783-040		C-IC,BA7762AFS	C31	87-010-263-080		CAP, ELECT 100-10V
	87-A21-577-040		C-IC,M61506FP	C32	87-010-197-080		CAP, CHIP 0.01 DM
	87-A21-021-040		C-IC,BU2099FV	C34	87-010-247-080		CAP, ELECT 100-50V
	87-070-289-040		IC,BU 2092F	C35	87-010-406-080		CAP, ELECT 22-50M 11L SME
	87-A21-452-030		C-IC,BD3876KS2	C36	87-010-381-080		CAP, ELECT 330-16V
	87-A21-051-040		C-IC,BU9990-03FS				
	87-A21-560-010		IC,LA1844L-A	C38	87-010-247-080		CAP, ELECT 100-50V
	87-070-127-110		IC,LC72131 D	C39	87-010-247-080		CAP, ELECT 100-50V
	87-020-454-010		IC,DN 6851	C40	87-010-197-080		CAP, CHIP 0.01 DM
	87-A20-561-040		C-IC,M65847AFP	C60	87-010-403-080		CAP, ELECT 3.3-50V
				C80	87-010-401-080		CAP, ELECT 1-50V
TRANSISTOR				C81	87-010-379-080		CAP, ELECT 22-16V
	87-026-245-080		TR,DTC114ES	C82	87-010-260-080		CAP, ELECT 47-25V
	87-A30-075-080		C-TR,2SA1235F	C104	87-010-196-080		CHIP CAPACITOR,0.1-25
	89-213-702-010		TR,2SB1370 (1.8W)	C105	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-A30-076-080		C-TR,2SC3052F	C111	87-010-545-080		CAP, ELECT 0.22-50V
	87-026-610-080		TR,KTC3198GR				
	87-026-609-080		TR,KTA1266GR	C112	87-010-545-080		CAP, ELECT 0.22-50V
	87-A30-087-080		C-FET,2SK2158	C113	87-010-545-080		CAP, ELECT 0.22-50V
	87-A30-107-070		C-TR,CMBT5401	C114	87-010-545-080		CAP, ELECT 0.22-50V
	87-A30-468-080		C-TR,KRC102S-RTK	C115	87-010-546-080		CAP, ELECT 0.33-50V
	87-A30-074-080		C-TR,RT1P141C	C116	87-010-546-080		CAP, ELECT 0.33-50V
	87-A30-269-040		C-FET,2SJ461-T1				
	87-A30-106-040		C-TR,CMBT5551	C121	87-010-546-080		CAP, ELECT 0.33-50V
	87-A30-086-040		C-TR,CSD1306E	C122	87-010-546-080		CAP, ELECT 0.33-50V
	87-A30-190-080		TR,CC5551	C171	87-012-368-080		C-CAP,S 0.1-50 F
	89-420-613-010		TR,2SD2061F	C172	87-012-368-080		C-CAP,S 0.1-50 F
	89-213-703-010		TR,2SB1370F	C173	87-012-368-080		C-CAP,S 0.1-50 F
	87-A30-063-080		C-TR,KRA104S				
	87-A30-329-080		TR,CD1585BC	C174	87-012-368-080		C-CAP,S 0.1-50 F
	89-327-143-080		C-TR,2SC27140 (0.1W)	C301	87-010-318-080		C-CAP,S 47P-50 J CH
	87-A30-489-080		C-TR,KRA107S	C302	87-010-318-080		C-CAP,S 47P-50 J CH
	87-A30-234-080		TR,CSC4115BC	C303	87-012-157-080		C-CAP,S 330P-50 CH
	87-026-463-080		TR,2SA933S	C304	87-012-157-080		C-CAP,S 330P-50 CH
	87-A30-484-080		C-TR,KRA102S				
	89-503-602-080		C-FET,2SK360E	C305	87-012-157-080		C-CAP,S 330P-50 CH
	87-A30-495-080		TR,2SA1981Y	C306	87-012-157-080		C-CAP,S 330P-50 CH
DIODE				C307	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-A40-673-090		DIODE,D10XB20	C309	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-A40-547-090		DIODE,D5SBA20	C310	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-020-465-080		DIODE,1S5133				
	87-A40-553-080		DIODE,1N4003 LES	C311	87-010-198-080		CAP, CHIP 0.022
	87-A40-784-080		ZENER,UZ39BSB	C312	87-010-198-080		CAP, CHIP 0.022
	87-A40-764-080		ZENER,UZ10BSC	C313	87-010-181-080		C-CAP,S 1800P-50 KB
	87-A40-313-080		C-DIODE,MC2840	C314	87-010-181-080		C-CAP,S 1800P-50 KB
	87-A40-270-080		C-DIODE,MC2838	C315	87-010-179-080		CAP,CHIP S B1200P
	87-A40-269-080		C-DIODE,MC2836				
	87-A40-768-080		ZENER,UZ16BSA	C316	87-010-179-080		CAP,CHIP S B1200P
	87-A40-752-080		ZENER,UZ6.2BSC	C321	87-012-142-080		CAP, S 0.33-16
	87-A40-748-080		ZENER,UZ5.6BSA	C322	87-012-142-080		CAP, S 0.33-16
	87-A40-802-080		ZENER,UZ5.1BSC	C324	87-010-260-080		CAP, ELECT 47-25V
	87-A40-747-080		ZENER,UZ5.1BSB	C325	87-010-370-080		CAP,E 330-6.3 SME
	87-A40-745-080		ZENER,UZ4.7BSA				
	87-A40-749-080		ZENER,UZ5.6BSB	C327	87-010-404-080		CAP, ELECT 4.7-50V
	87-017-149-080		ZENER,HZS6A2L	C328	87-010-404-080		CAP, ELECT 4.7-50V
MAIN C.B				C332	87-010-196-080		CHIP CAPACITOR,0.1-25
C3	87-012-368-080		C-CAP,S 0.1-50 F	C335	87-010-401-080		CAP, ELECT 1-50V
C4	87-012-368-080		C-CAP,S 0.1-50 F	C336	87-010-401-080		CAP, ELECT 1-50V
C21	87-016-658-000		CAP,E 4700-35 M SMG				
				C337	87-010-196-080		CHIP CAPACITOR,0.1-25
				C339	87-010-196-080		CHIP CAPACITOR,0.1-25
				C340	87-010-196-080		CHIP CAPACITOR,0.1-25
				C351	87-012-140-080		CAP 470P
				C352	87-012-140-080		CAP 470P
				C354	87-010-175-080		CAP 560P
				C355	87-010-178-080		CHIP CAP 1000P
				C356	87-010-260-080		CAP, ELECT 47-25V
				C357	87-010-197-080		CAP, CHIP 0.01 DM
				C358	87-010-183-080		C-CAP,S 2700P-50 B
				C359	87-010-183-080		C-CAP,S 2700P-50 B
				C360	87-010-183-080		C-CAP,S 2700P-50 B
				C363	87-A12-361-080		CAP,M 5600P-100 J CP
				C370	87-010-196-080		CHIP CAPACITOR,0.1-25
				C373	87-A11-177-080		C-CAP,S 0.15-16 KB

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C374	87-A11-177-080		C-CAP,S 0.15-16 KB	C641	87-010-401-080		CAP, ELECT 1-50V
C378	87-010-196-080		CHIP CAPACITOR,0.1-25	C642	87-010-401-080		CAP, ELECT 1-50V
C379	87-010-382-080		CAP, ELECT 22-25V	C643	87-010-196-080		CHIP CAPACITOR,0.1-25
C380	87-010-382-080		CAP, ELECT 22-25V	C644	87-010-401-080		CAP, ELECT 1-50V
C381	87-010-197-080		CAP, CHIP 0.01 DM	C671	87-010-322-080		C-CAP,S 100P-50 CH
C382	87-010-312-080		C-CAP,S 15P-50 CH	C672	87-010-322-080		C-CAP,S 100P-50 CH
C383	87-010-197-080		CAP, CHIP 0.01 DM	C673	87-010-197-080		CAP, CHIP 0.01 DM
C384	87-010-402-080		CAP, ELECT 2.2-50V	C676	87-010-382-080		CAP,E 22-25 M 11L SME
C386	87-010-196-080		CHIP CAPACITOR,0.1-25	C679	87-010-196-080		CHIP CAPACITOR,0.1-25
C387	87-012-145-080		CAP, CHIP S 270P CH	C680	87-010-197-080		CAP, CHIP 0.01 DM
C388	87-012-156-080		C-CAP,S 220P-50 CH	C771	87-010-263-080		CAP, ELECT 100-10V
C391	87-010-319-080		C-CAP,S 56P-50 CH	C772	87-010-197-080		CAP, CHIP 0.01 DM
C392	87-010-319-080		C-CAP,S 56P-50 CH	C779	87-012-182-080		C-CAP,S 2200P-50 KB
C393	87-010-319-080		C-CAP,S 56P-50 CH	C780	87-012-182-080		C-CAP,S 2200P-50 KB
C394	87-010-319-080		C-CAP,S 56P-50 CH	C782	87-010-197-080		CAP, CHIP 0.01 DM
C501	87-010-263-080		CAP, ELECT 100-10V	C783	87-010-197-080		CAP, CHIP 0.01 DM
C502	87-010-196-080		CHIP CAPACITOR,0.1-25	C784	87-010-197-080		CAP, CHIP 0.01 DM
C503	87-012-393-080		C-CAP,S 0.22-16 R K	C785	87-010-197-080		CAP, CHIP 0.01 DM
C504	87-012-393-080		C-CAP,S 0.22-16 R K	C786	87-010-197-080		CAP, CHIP 0.01 DM
C505	87-012-141-080		CHIP-CAPACITOR,0.22-16F	C788	87-010-149-080		C-CAP,S 5P-50 CH
C506	87-010-184-080		CHIP CAPACITOR 3300P(K)	C789	87-A10-592-080		C-CAP,S 0.015-50 J B
C507	87-010-177-080		C-CAP,S 820P-50 SL	C790	87-A10-592-080		C-CAP,S 0.015-50 J B
C508	87-016-669-080		C-CAP,S 0.1-25 K B	C791	87-010-196-080		CHIP CAPACITOR,0.1-25
C509	87-016-669-080		C-CAP,S 0.1-25 K B	C792	87-010-197-080		CAP, CHIP 0.01 DM
C510	87-010-184-080		CHIP CAPACITOR 3300P(K)	C793	87-010-404-080		CAP, ELECT 4.7-50V
C511	87-010-177-080		C-CAP,S 820P-50 SL	C795	87-010-197-080		CAP, CHIP 0.01 DM
C512	87-012-141-080		CHIP-CAPACITOR,0.22-16F	C796	87-010-197-080		CAP, CHIP 0.01 DM
C513	87-010-544-080		CAP, ELECT 0.1-50V	C797	87-010-405-080		CAP, ELECT 10-50V
C514	87-010-374-080		CAP, ELECT 47-10V	C798	87-010-197-080		CAP, CHIP 0.01 DM
C515	87-010-401-080		CAP, ELECT 1-50V	C799	87-010-407-080		CAP, ELECT 33-50V
C516	87-010-401-080		CAP, ELECT 1-50V	C800	87-012-369-080		C-CAP,S 0.047-50F
C517	87-010-183-080		C-CAP,S 2700P-50 B	C801	87-010-403-080		CAP, ELECT 3.3-50V
C518	87-010-183-080		C-CAP,S 2700P-50 B	C802	87-012-369-080		C-CAP,S 0.047-50F
C519	87-A12-380-080		CAP,M 0.22-100 J CP	C803	87-010-198-080		CAP, CHIP 0.022
C531	87-010-405-080		CAP, ELECT 10-50V	C804	87-010-263-080		CAP, ELECT 100-10V
C532	87-010-196-080		CHIP CAPACITOR,0.1-25	C807	87-010-400-080		CAP, ELECT 0.47-50V
C533	87-010-196-080		CHIP CAPACITOR,0.1-25	C808	87-010-401-080		CAP, ELECT 1-50V
C534	87-012-156-080		C-CAP,S 220P-50 CH	C809	87-010-401-080		CAP, ELECT 1-50V
C535	87-010-178-080		CHIP CAP 1000P	C810	87-010-196-080		CHIP CAPACITOR,0.1-25
C536	87-010-196-080		CHIP CAPACITOR,0.1-25	C811	87-010-403-080		CAP, ELECT 3.3-50V
C538	87-010-318-080		C-CAP,S 47P-50 CH	C812	87-010-403-080		CAP, ELECT 3.3-50V
C541	87-010-178-080		CHIP CAP 1000P	C814	87-010-197-080		CAP, CHIP 0.01 DM
C609	87-010-181-080		CAP,CHIP S 1800P	C815	87-010-400-080		CAP, ELECT 0.47-50V
C610	87-010-181-080		CAP,CHIP S 1800P	C816	87-010-400-080		CAP, ELECT 0.47-50V
C611	87-010-598-080		CHIP-CAP,S 0.068-16 KR	C821	87-010-405-080		CAP, ELECT 10-50V
C612	87-016-369-080		C-CAP,S 0.033-25 B K	C823	87-010-177-080		C-CAP,S 820P-50 SL
C613	87-010-197-080		CAP, CHIP 0.01 DM	C824	87-010-405-080		CAP, ELECT 10-50V
C614	87-016-669-080		C-CAP,S 0.1-25 K B	C825	87-010-596-080		CAP, S 0.047-16
C616	87-010-184-080		CHIP CAPACITOR 3300P(K)	C842	87-010-197-080		CAP, CHIP 0.01 DM
C617	87-012-369-080		C-CAP,S 0.047-50F	C843	87-010-197-080		CAP, CHIP 0.01 DM
C618	87-010-401-080		CAP, ELECT 1-50V	C844	87-010-197-080		CAP, CHIP 0.01 DM
C619	87-010-263-080		CAP, ELECT 100-10V	C845	87-010-197-080		CAP, CHIP 0.01 DM
C620	87-016-669-080		C-CAP,S 0.1-25 K B	C846	87-010-197-080		CAP, CHIP 0.01 DM
C621	87-010-197-080		CAP, CHIP 0.01 DM	C847	87-010-197-080		CAP, CHIP 0.01 DM
C623	87-010-401-080		CAP, ELECT 1-50V	C848	87-010-197-080		CAP, CHIP 0.01 DM
C624	87-010-401-080		CAP, ELECT 1-50V	C849	87-010-197-080		CAP, CHIP 0.01 DM
C626	87-010-596-080		CAP, S 0.047-16	C850	87-010-260-080		CAP, ELECT 47-25V
C627	87-010-400-080		CAP, ELECT 0.47-50V	C851	87-010-197-080		CAP, CHIP 0.01 DM
C628	87-010-400-080		CAP, ELECT 0.47-50V	C852	87-010-197-080		CAP, CHIP 0.01 DM
C629	87-010-596-080		CAP, S 0.047-16	C853	87-010-197-080		CAP, CHIP 0.01 DM
C630	87-010-383-080		CAP, ELECT 33-25V	C858	87-010-196-080		CHIP CAPACITOR,0.1-25
C631	87-010-185-080		C-CAP,S 3900P-50 B	C859	87-010-196-080		CHIP CAPACITOR,0.1-25
C632	87-010-185-080		C-CAP,S 3900P-50 B	C860	87-010-197-080		CAP, CHIP 0.01 DM
C633	87-010-178-080		C-CAP,S 1000P-50 KB	C940	87-010-197-080		C-CAP,S 0.01-25
C634	87-010-196-080		CHIP CAPACITOR,0.1-25	C941	87-010-314-080		C-CAP,S 22P-50 CH
C635	87-A12-376-080		CAP,M 0.1-100 J CP	C943	87-010-197-080		C-CAP,S 0.01-25 KB
C636	87-A12-376-080		CAP,M 0.1-100 J CP	C945	87-010-197-080		C-CAP,S 0.01-25 KB
C637	87-A12-376-080		CAP,M 0.1-100 J CP	C946	87-010-971-080		C-CAP,S 4700P-50 JB
C638	87-A12-376-080		CAP,M 0.1-100 J CP	C947	87-010-197-080		C-CAP,S 0.01-25
C639	87-010-405-080		CAP, ELECT 10-50V	C948	87-010-148-080		C-CAP,S 4P-50 CH

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C804	87-010-187-080		CAP CHIP S5600P
C805	87-010-196-080		CHIP CAPACITOR,0.1-25
C806	87-010-401-040		CAP,E 1-50 SME
C807	87-010-196-080		CHIP CAPACITOR,0.1-25
C808	87-010-196-080		CHIP CAPACITOR,0.1-25
C809	87-012-155-080		C-CAP 180P-50CH
C810	87-010-263-040		CAP,E 100-10
C811	87-010-545-040		CAP,E 0.22-50 SME
C812	87-010-405-040		CAP,E 10-50
C820	87-018-209-080		CAP,TC U 0.1-50 ZF
CN101	87-099-720-010		CONN,30P TYK-B(P)
CN104	87-099-017-010		CONN, 15P 6216 V
CN301	87-099-195-010		CONN,7P 6216 V
CN604	87-099-210-010		CONN,5P 6216 H
CN901	87-A60-161-010		CONN,13P H FE
FB801	87-008-372-080		FILTER, EMI BL OIRNI
FC104	88-915-111-110		FF-CABLE,15P 1.25
FC301	88-907-421-110		FF-CABLE,7P 1.25 420MM
FC901	88-913-521-110		FF-CABLE,13P 1.25 520MM
FL201	8A-NF6-601-010		FL,BJ750GNK 13G-35S ANF-6
L101	87-A50-333-010		COIL,OSC 9.43MHZ
L801	87-A50-093-010		COIL,CLOCK 5.76MHZ
LED401	87-017-756-040		LED,SLR-342DCT31 ORN
LED402	87-017-756-040		LED,SLR-342DCT31 ORN
LED403	87-017-756-040		LED,SLR-342DCT31 ORN
LED404	87-017-756-040		LED,SLR-342DCT31 ORN
LED405	87-017-756-040		LED,SLR-342DCT31 ORN
LED406	87-A40-496-040		LED,SLR-342MCT31 GRN
LED407	87-A40-496-040		LED,SLR-342MCT31 GRN
LED408	87-A40-496-040		LED,SLR-342MCT31 GRN
LED409	87-A40-496-040		LED,SLR-342MCT31 GRN
LED410	87-A40-496-040		LED,SLR-342MCT31 GRN
LED416	87-A40-809-080		LED,LTL-307KK PGRN
LED417	87-A40-809-080		LED,LTL-307KK PGRN
LED418	87-A40-809-080		LED,LTL-307KK PGRN
LED419	87-A40-809-080		LED,LTL-307KK PGRN
LED420	87-A40-809-080		LED,LTL-307KK PGRN
LED421	87-A40-809-080		LED,LTL-307KK PGRN
LED425	87-017-756-040		LED,SLR-342DCT31 ORN
LED426	87-017-756-040		LED,SLR-342DCT31 ORN
LED431	87-A40-930-040		LED,E1L55-7B0A6 BLUE
LED432	87-A40-930-040		LED,E1L55-7B0A6 BLUE
LED433	87-A40-678-010		LED,SELU1E10 CXM BLUE-DEF
LED440	87-A91-665-010		LED,SELU1E10 CXM-SLF55 BLUE
LED441	87-A91-665-010		LED,SELU1E10 CXM-SLF55 BLUE
LED499	87-A40-317-080		LED,SLR-342VCT31 RED
S101	87-A91-591-010		SW,RTRY RE0121PVB25FINA24
S102	87-A91-664-010		SW,RTRY RE0121PVB30F
S301	87-A91-024-180		SW,TACT KSH0611BT
S302	87-A91-024-180		SW,TACT KSH0611BT
S303	87-A91-024-180		SW,TACT KSH0611BT
S304	87-A91-024-180		SW,TACT KSH0611BT
S305	87-A91-024-180		SW,TACT KSH0611BT
S306	87-A91-024-180		SW,TACT KSH0611BT
S307	87-A91-024-180		SW,TACT KSH0611BT
S308	87-A91-024-180		SW,TACT KSH0611BT
S309	87-A91-024-180		SW,TACT KSH0611BT
S310	87-A91-024-180		SW,TACT KSH0611BT
S311	87-A91-024-180		SW,TACT KSH0611BT
S312	87-A91-024-180		SW,TACT KSH0611BT
S313	87-A91-024-180		SW,TACT KSH0611BT
S314	87-A91-024-180		SW,TACT KSH0611BT
S321	87-A91-024-180		SW,TACT KSH0611BT
S322	87-A91-024-180		SW,TACT KSH0611BT
S323	87-A91-024-180		SW,TACT KSH0611BT
S324	87-A91-024-180		SW,TACT KSH0611BT
S325	87-A91-024-180		SW,TACT KSH0611BT
S326	87-A91-024-180		SW,TACT KSH0611BT
S327	87-A91-024-180		SW,TACT KSH0611BT
S328	87-A91-024-180		SW,TACT KSH0611BT

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
S329	87-A91-024-180		SW,TACT KSH0611BT
S330	87-A91-024-180		SW,TACT KSH0611BT
S331	87-A91-024-180		SW,TACT KSH0611BT
S332	87-A91-024-180		SW,TACT KSH0611BT
S333	87-A91-024-180		SW,TACT KSH0611BT
S334	87-A91-024-180		SW,TACT KSH0611BT
S341	87-A91-024-180		SW,TACT KSH0611BT
S342	87-A91-024-180		SW,TACT KSH0611BT
S343	87-A91-024-180		SW,TACT KSH0611BT
S344	87-A91-024-180		SW,TACT KSH0611BT
S345	87-A91-024-180		SW,TACT KSH0611BT
S346	87-A91-024-180		SW,TACT KSH0611BT
S347	87-A91-024-180		SW,TACT KSH0611BT
CD KEY C.B			
CN302	87-099-195-010		CONN,7P 6216 V
LED451	87-017-756-040		LED,SLR-342DCT31 ORN
LED452	87-017-756-040		LED,SLR-342DCT31 ORN
LED453	87-017-756-040		LED,SLR-342DCT31 ORN
LED454	87-A40-496-040		LED,SLR-342MCT31 GRN
LED455	87-A40-496-040		LED,SLR-342MCT31 GRN
LED456	87-A40-496-040		LED,SLR-342MCT31 GRN
S349	87-A91-024-180		SW,TACT KSH0611BT
S350	87-A91-024-180		SW,TACT KSH0611BT
S351	87-A91-024-180		SW,TACT KSH0611BT
S352	87-A91-024-180		SW,TACT KSH0611BT
S353	87-A91-024-180		SW,TACT KSH0611BT
S354	87-A91-024-180		SW,TACT KSH0611BT
S355	87-A91-024-180		SW,TACT KSH0611BT
MIC C.B			
C601	87-010-186-080		CAP,CHIP 4700P
C602	87-010-405-040		CAP,E 10-50
C603	87-010-320-080		CHIP CAP 68P
C604	87-010-546-040		CAP,E 0.33-50
C605	87-012-368-080		C-CAP,S 0.1-50 ZF
C606	87-010-112-040		CAP,E 100-16
C607	87-010-196-080		CHIP CAPACITOR,0.1-25
C608	87-010-178-080		CHIP CAP 1000P
C621	87-010-178-080		CHIP CAP 1000P
CN603	87-099-212-010		CONN,5P 6216 V
FB601	87-008-372-080		FILTER, EMI BL OIRNI
FC603	88-905-281-110		FF-CABLE, 5P 1.25 280MM
J601	87-A61-242-010		JACK,6.3 BLK MONO W/SW V KM
J602	87-A61-242-010		JACK,6.3 BLK MONO W/SW V KM
VM C.B			
AMP 1F C.B			
C101	87-010-178-080		CHIP CAP 1000P
C102	87-010-178-080		CHIP CAP 1000P
C103	87-010-545-080		CAP, ELECT 0.22-50V
C104	87-010-545-080		CAP, ELECT 0.22-50V
C107	87-010-405-080		CAP, ELECT 10-50V
C108	87-010-405-080		CAP, ELECT 10-50V
C111	87-010-179-080		C-CAP,S 1200P-50 KB
C112	87-010-179-080		C-CAP,S 1200P-50 KB
C113	87-010-405-080		CAP, ELECT 10-50V
C114	87-010-405-080		CAP, ELECT 10-50V
C115	87-016-299-080		CAP,E 10-100 SME
C116	87-016-299-080		CAP,E 10-100 SME
C119	87-010-197-080		CAP, CHIP 0.01 DM
C120	87-010-197-080		CAP, CHIP 0.01 DM
C133	87-010-190-080		C-CAP,S 0.01-50 ZF
C153	87-010-188-080		C-CAP,S 6800P-50 B
C201	87-A12-369-080		CAP,M 0.027-100 J CP
C202	87-A12-369-080		CAP,M 0.027-100 J CP

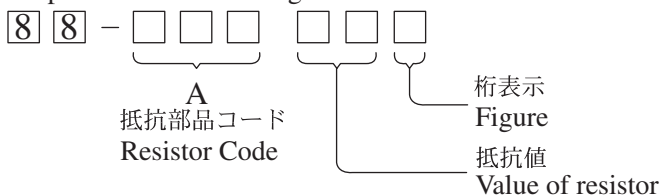
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C203	87-A12-369-080		CAP,M 0.027-100 J CP	C240	87-010-544-080		CAP, ELECT 0.1-50V
C204	87-A12-369-080		CAP,M 0.027-100 J CP	C301	87-010-178-080		CHIP CAP 1000P
C205	87-010-180-080		C-CER 1500P	C302	87-010-178-080		CHIP CAP 1000P
C206	87-010-180-080		C-CER 1500P	C303	87-010-544-080		CAP, ELECT 0.1-50V
C207	87-010-401-080		CAP, ELECT 1-50V	C304	87-010-544-080		CAP, ELECT 0.1-50V
C208	87-010-401-080		CAP, ELECT 1-50V	C309	87-010-401-080		CAP, ELECT 1-50V
C209	87-010-187-080		CAP CHIP S5600P	C310	87-010-401-080		CAP, ELECT 1-50V
C210	87-010-187-080		CAP CHIP S5600P	C311	87-010-260-080		CAP, ELECT 47-25V
C211	87-010-402-080		CAP, ELECT 2.2-50V	C312	87-010-260-080		CAP, ELECT 47-25V
C212	87-010-402-080		CAP, ELECT 2.2-50V	C315	87-A10-596-080		C-CAP,S 100P-100 J CH
C215	87-010-179-080		C-CAP,S 1200P-50 KB	C316	87-A10-596-080		C-CAP,S 100P-100 J CH
C216	87-010-179-080		C-CAP,S 1200P-50 KB	C317	87-010-197-080		CAP, CHIP 0.01 DM
C217	87-010-401-080		CAP, ELECT 1-50V	C318	87-010-197-080		CAP, CHIP 0.01 DM
C218	87-010-401-080		CAP, ELECT 1-50V	C319	87-012-368-080		C-CAP,S 0.1-50 F
C221	87-010-405-080		CAP, ELECT 10-50V	C320	87-012-368-080		C-CAP,S 0.1-50 F
C222	87-010-405-080		CAP, ELECT 10-50V	C321	87-010-197-080		CAP, CHIP 0.01 DM
C223	87-010-197-080		CAP, CHIP 0.01 DM	C322	87-010-197-080		CAP, CHIP 0.01 DM
C224	87-010-197-080		CAP, CHIP 0.01 DM	C323	87-010-196-080		CHIP CAPACITOR,0.1-25
C251	87-012-368-080		C-CAP,S 0.1-50 F	C324	87-010-196-080		CHIP CAPACITOR,0.1-25
C252	87-012-368-080		C-CAP,S 0.1-50 F	C325	87-010-186-080		CAP,CHIP 4700P
C253	87-010-196-080		CHIP CAPACITOR,0.1-25	C401	87-010-196-080		CHIP CAPACITOR,0.1-25
C254	87-010-196-080		CHIP CAPACITOR,0.1-25	C402	87-010-196-080		CHIP CAPACITOR,0.1-25
C401	87-010-260-080		CAP, ELECT 47-25V	C403	87-010-405-080		CAP, ELECT 10-50V
CN101	87-A61-011-010		CONN,13P H BLK TAC-L13P-A3	C404	87-010-405-080		CAP, ELECT 10-50V
CN102	87-A61-011-010		CONN,13P H BLK TAC-L13P-A3	CN101	87-099-195-010		CONN,7P 6216 V
CN106	87-099-195-010		CONN,7P 6216 V	CN102	87-049-919-010		CONN,3P EH V WHT
CNA101	8A-NF6-645-010		CONN ASSY,5P TID-A(530)	CN103	87-A60-619-010		CONN,2P V 2MM JMT
CNA102	8A-NF6-660-010		CONN ASSY,3P (SATE) ANF-6	J301	87-A61-189-010		JACK,3.5 MONO
FC106	88-907-151-110		FF-CABLE, 7P 1.25 150MM	J302	87-A61-189-010		JACK,3.5 MONO
J201	87-A61-148-010		JACK,PIN 4P R/W BLUE	L301	87-A50-610-010		COIL,1UH K (MDEC)
L251	87-A50-610-010		COIL,1UH K (MDEC)	L302	87-A50-610-010		COIL,1UH K (MDEC)
L252	87-A50-610-010		COIL,1UH K (MDEC)				
R129	87-A00-262-080		RES,M/F 0.15-2W J				
R130	87-A00-262-080		RES,M/F 0.15-2W J	PT C.B			
R231	87-A00-258-080		RES,M/F 0.22-1W J				
R232	87-A00-258-080		RES,M/F 0.22-1W J	C1	87-010-387-080		CAP,E 470-25 SME
WH101	87-A90-459-010		HLD R,WIRE 2.5-5P	C4	87-A11-148-080		CAP,TC U 0.1-50 Z F
				C5	87-A11-148-080		CAP,TC U 0.1-50 Z F
				C6	87-010-917-000		CAP,E 3300-50 M SMG
				C7	87-010-917-000		CAP,E 3300-50 M SMG
AMP SATE C.B							
C201	87-010-263-080		CAP, ELECT 100-10V	C8	87-A11-148-080		CAP,TC U 0.1-50 Z F
C211	87-012-393-080		C-CAP,S 0.22-16 R K	C9	87-A11-148-080		CAP,TC U 0.1-50 Z F
C212	87-012-393-080		C-CAP,S 0.22-16 R K	C10	87-A11-148-080		CAP,TC U 0.1-50 Z F
C213	87-012-393-080		C-CAP,S 0.22-16 R K	C11	87-A11-148-080		CAP,TC U 0.1-50 Z F
C214	87-012-393-080		C-CAP,S 0.22-16 R K	C12	87-016-657-090		CAP,E 3300-71
C215	87-010-196-080		CHIP CAPACITOR,0.1-25	C13	87-016-657-090		CAP,E 3300-71
C216	87-010-196-080		CHIP CAPACITOR,0.1-25	C16	87-010-403-080		CAP, ELECT 3.3-50V
C217	87-012-141-080		CHIP-CAPACITOR,0.22-16F	CN1	87-A61-110-010		CONN,9P V TID-A
C218	87-012-141-080		CHIP-CAPACITOR,0.22-16F	CN2	87-A61-108-010		CONN,5P V TID-A
C219	87-010-184-080		CHIP CAPACITOR 3300P(K)	△ PT2	8A-NF8-673-010		PT,SUB ANF-8 (H) KAMI
C220	87-010-184-080		CHIP CAPACITOR 3300P(K)	△ PT101	8A-NF6-622-010		PT,LH EI96-60 ANF-6
C221	87-010-177-080		C-CAP,S 820P-50 SL	△ RY1	87-A91-281-010		RELAY,ACDC12V OSA-SS-212DM5
C222	87-010-177-080		C-CAP,S 820P-50 SL	△ S1	87-A90-165-010		SW,SL 1-2-3 SWS2301
C223	87-016-081-080		C-CAP,S 0.1-16 K R	△ T1	87-A60-317-010		TERMINAL, 1P MSC
C224	87-016-081-080		C-CAP,S 0.1-16 K R	△ T2	87-A60-317-010		TERMINAL, 1P MSC
C225	87-016-081-080		C-CAP,S 0.1-16 K R				
C226	87-016-081-080		C-CAP,S 0.1-16 K R	DECK C.B			
C227	87-010-184-080		CHIP CAPACITOR 3300P(K)	CON502	87-099-756-010		CONN,15P 9604S F
C228	87-010-184-080		CHIP CAPACITOR 3300P(K)	SFR1	87-024-581-010		SFR,3.3K DIA6V K0A
C229	87-010-177-080		C-CAP,S 820P-50 SL	SOL1	82-ZM3-621-110		SOL ASSY 27 KO
C230	87-010-177-080		C-CAP,S 820P-50 SL	SOL2	82-ZM3-621-110		SOL ASSY 27 KO
C231	87-012-141-080		CHIP-CAPACITOR,0.22-16F	SW1	87-A90-248-010		SW,MICRO ESE11SH2CXQ
C232	87-012-141-080		CHIP-CAPACITOR,0.22-16F	SW2	87-A90-248-010		SW,MICRO ESE11SH2CXQ
C233	87-010-374-080		CAP, ELECT 47-10V	SW3	87-A90-248-010		SW,MICRO ESE11SH2CXQ
C234	87-010-374-080		CAP, ELECT 47-10V	SW4	87-036-110-010		PUSH SWITCH
C235	87-010-544-080		CAP, ELECT 0.1-50V	SW5	87-036-110-010		PUSH SWITCH
C236	87-010-544-080		CAP, ELECT 0.1-50V	SW6	87-036-110-010		PUSH SWITCH
C237	87-010-183-080		C-CAP,S 2700P-50 B	SW8	87-A90-248-010		SW,MICRO ESE11SH2CXQ
C238	87-010-183-080		C-CAP,S 2700P-50 B	SW9	87-A90-248-010		SW,MICRO ESE11SH2CXQ
C239	87-010-544-080		CAP, ELECT 0.1-50V	W1	82-ZM3-601-010		RBN-CORD,4P-75

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
HEAD-1	C.B		
HEAD-2	C.B		
KEY CON	C.B		
C551	87-A10-060-080		C-CAP,S 0.18-16 KB
C552	87-A10-060-080		C-CAP,S 0.18-16 KB
C553	87-012-154-080		C-CAP,S 150P-50
C554	87-012-154-080		C-CAP,S 150P-50
C555	87-012-145-080		C-CAP,S 270P-50
C556	87-012-145-080		C-CAP,S 270P-50
C557	87-010-183-080		C-CAP,S 2700P-50 B
C559	87-010-196-080		CHIP CAPACITOR,0.1-25
C560	87-010-177-080		C-CAP,S 820P-50 SL
C561	87-010-177-080		C-CAP,S 820P-50 SL
C562	87-010-196-080		CHIP CAPACITOR,0.1-25
C563	87-010-374-080		CAP, ELECT 47-10V
C564	87-010-196-080		CHIP CAPACITOR,0.1-25
C565	87-010-263-080		CAP, ELECT 100-10V
C567	87-010-183-080		C-CAP,S 2700P-50 B
C571	87-016-460-080		C-CAP,S 0.22-16 K B
C572	87-016-460-080		C-CAP,S 0.22-16 K B
C573	87-016-460-080		C-CAP,S 0.22-16 K B
C577	87-010-196-080		CHIP CAPACITOR,0.1-25
CN551	87-A60-689-010		CONN,7P H GRY TUC-PO7X-C1

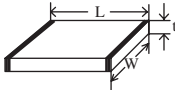
○チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち

Chip Resistor Part Coding



チップ抵抗 Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm)				抵抗コード : A Resistor Code : A
				外形／Form	L	W	t	
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION



E C B

2SA1981Y
CD1585BC
CSC4115BC
KTA1266GR
KTC3198GR



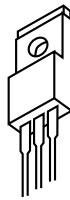
E C B

CC5551



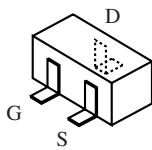
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DTC114ES

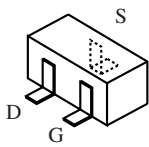


B C E

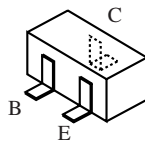
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2SD2061F



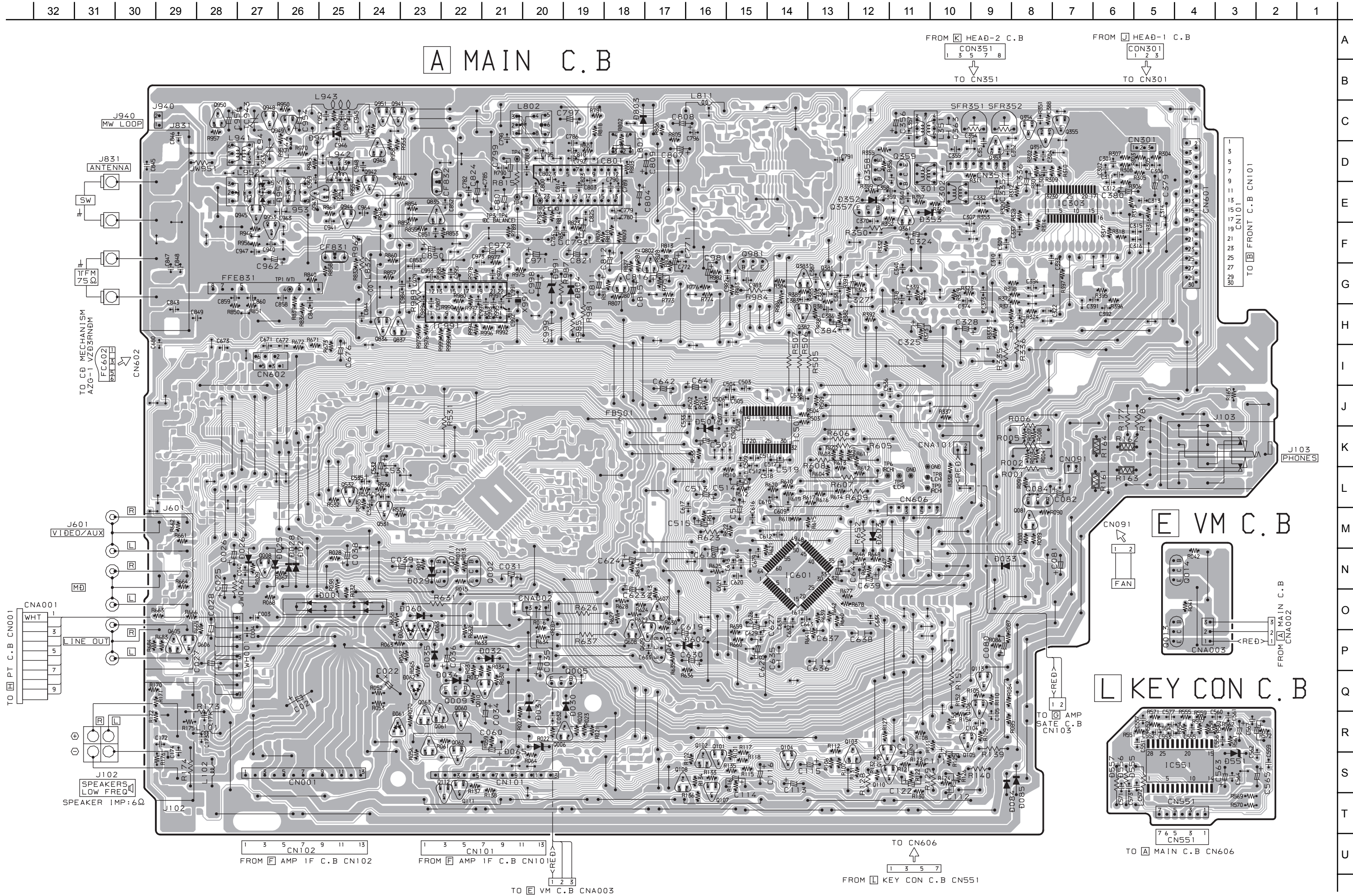
2SJ461-T1
2SK2158



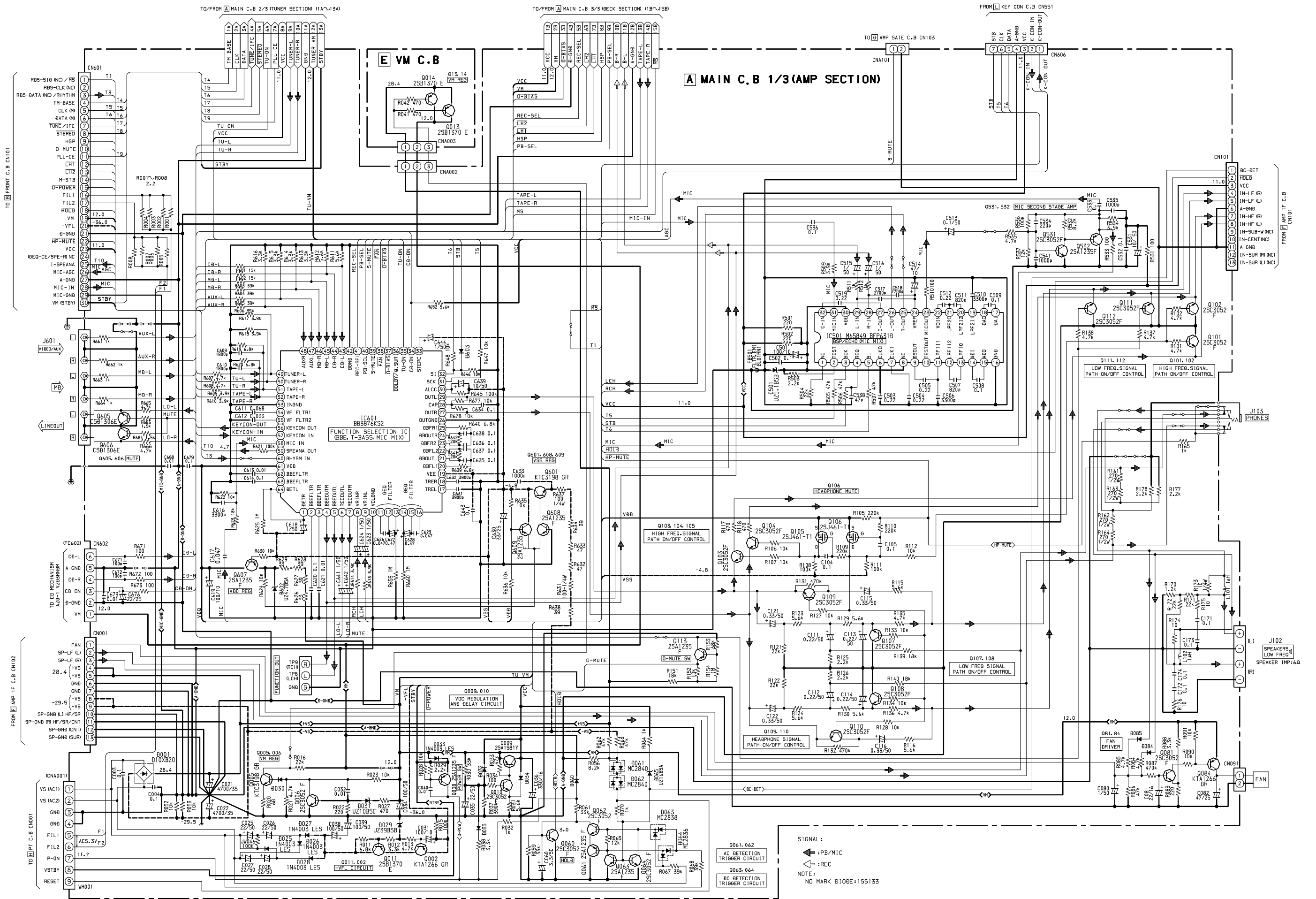
2SK360E



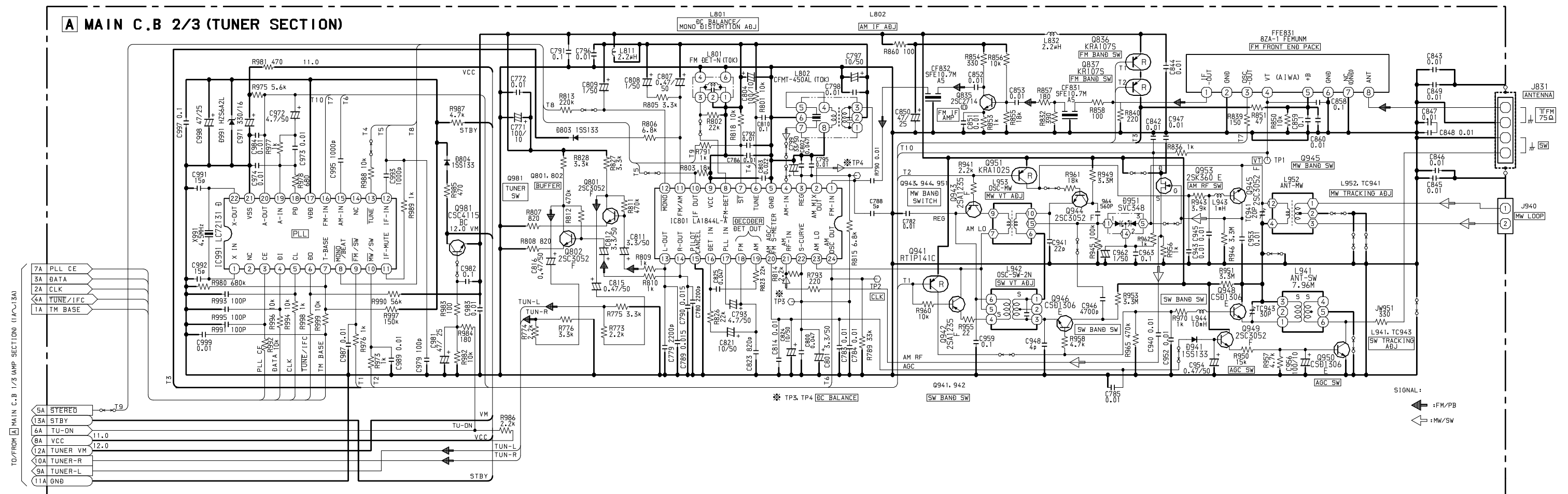
2SA1235F	KRA102S
2SC2714O	KRC102S-RTK
2SC3052F	KRA104S
CMBT5401	KRA107S
CMBT5551	RT1P141C
CSD1306E	



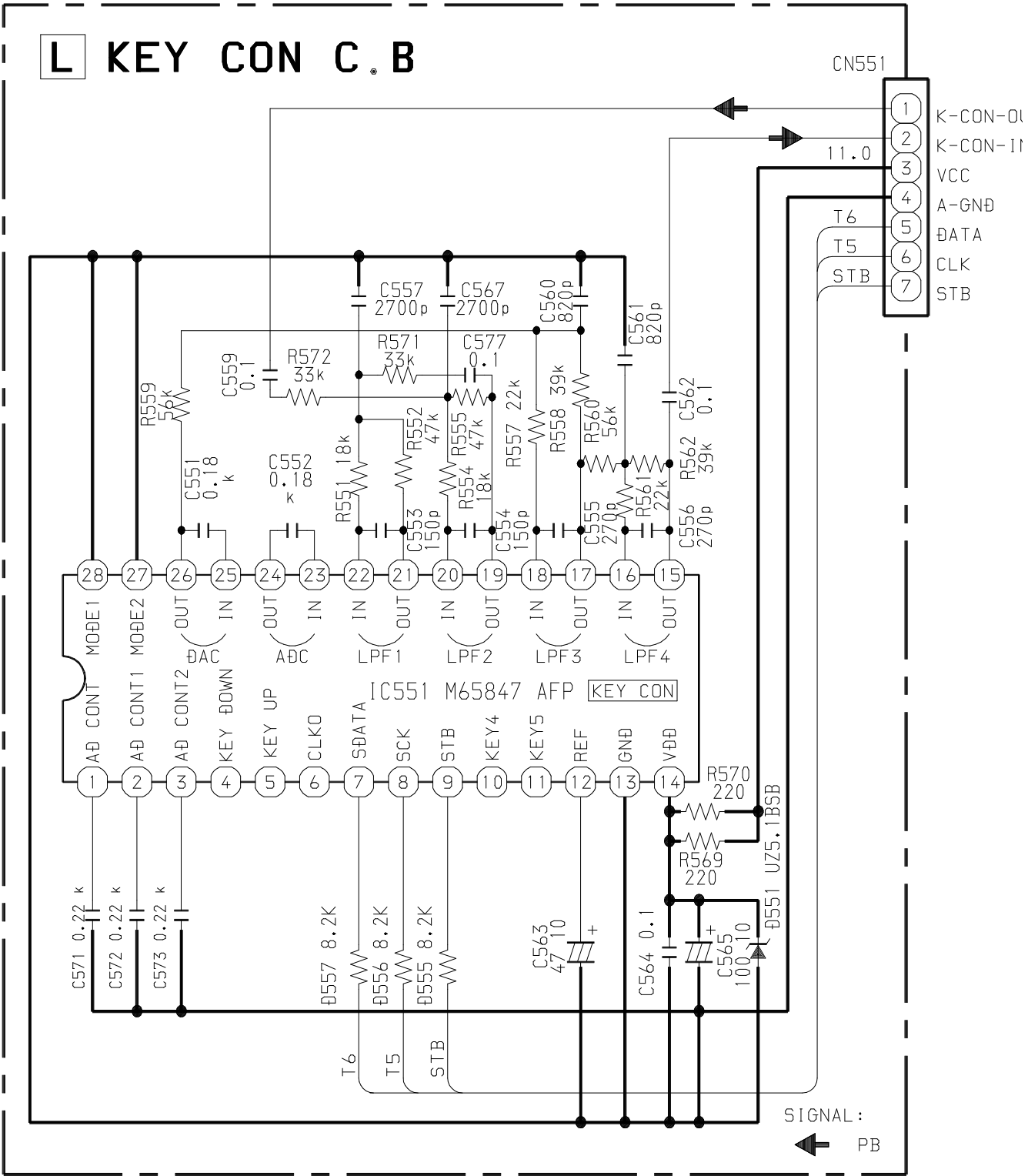
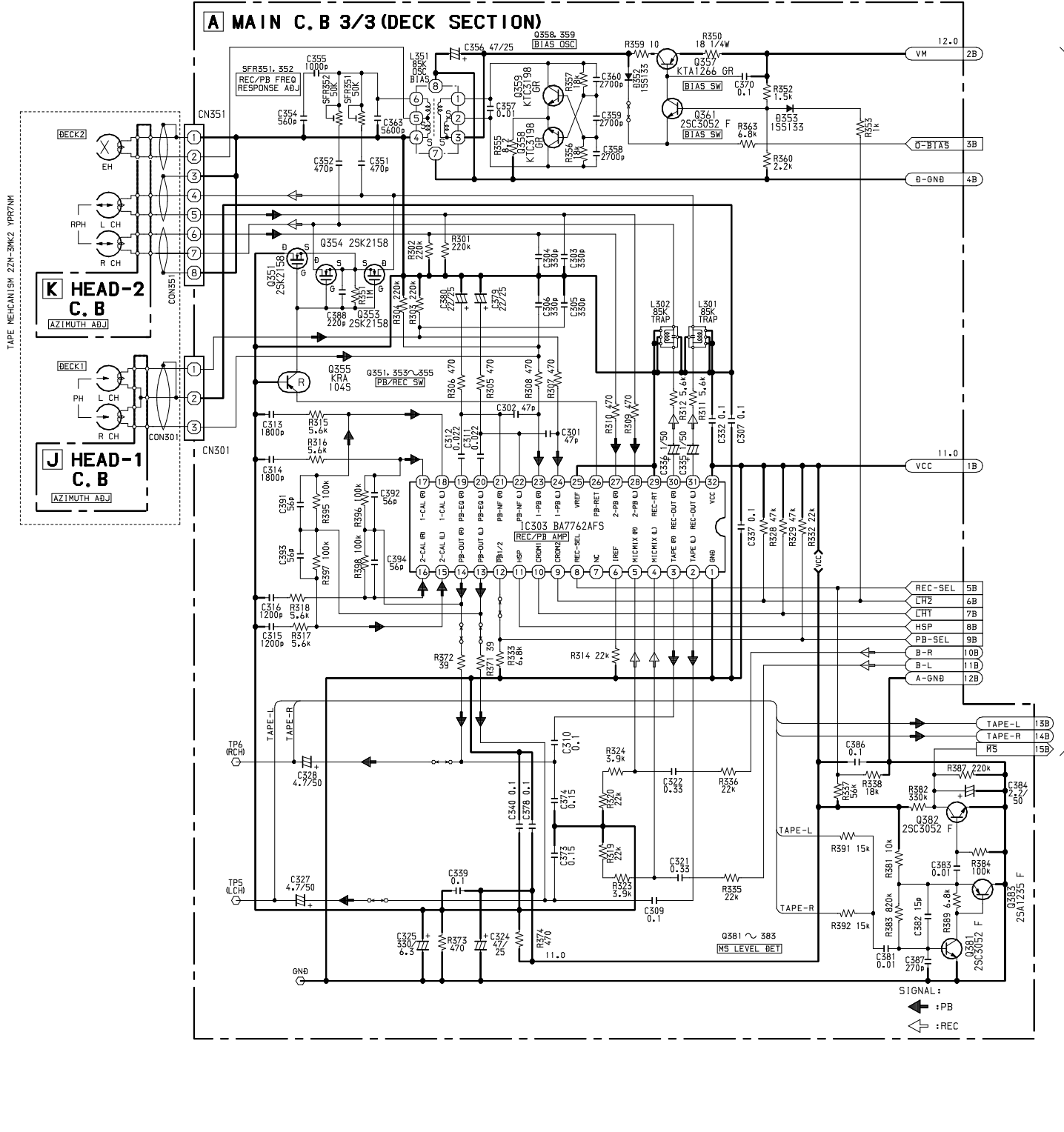
SCHEMATIC DIAGRAM-1 (MAIN 1/3:AMP SECTION /VM)

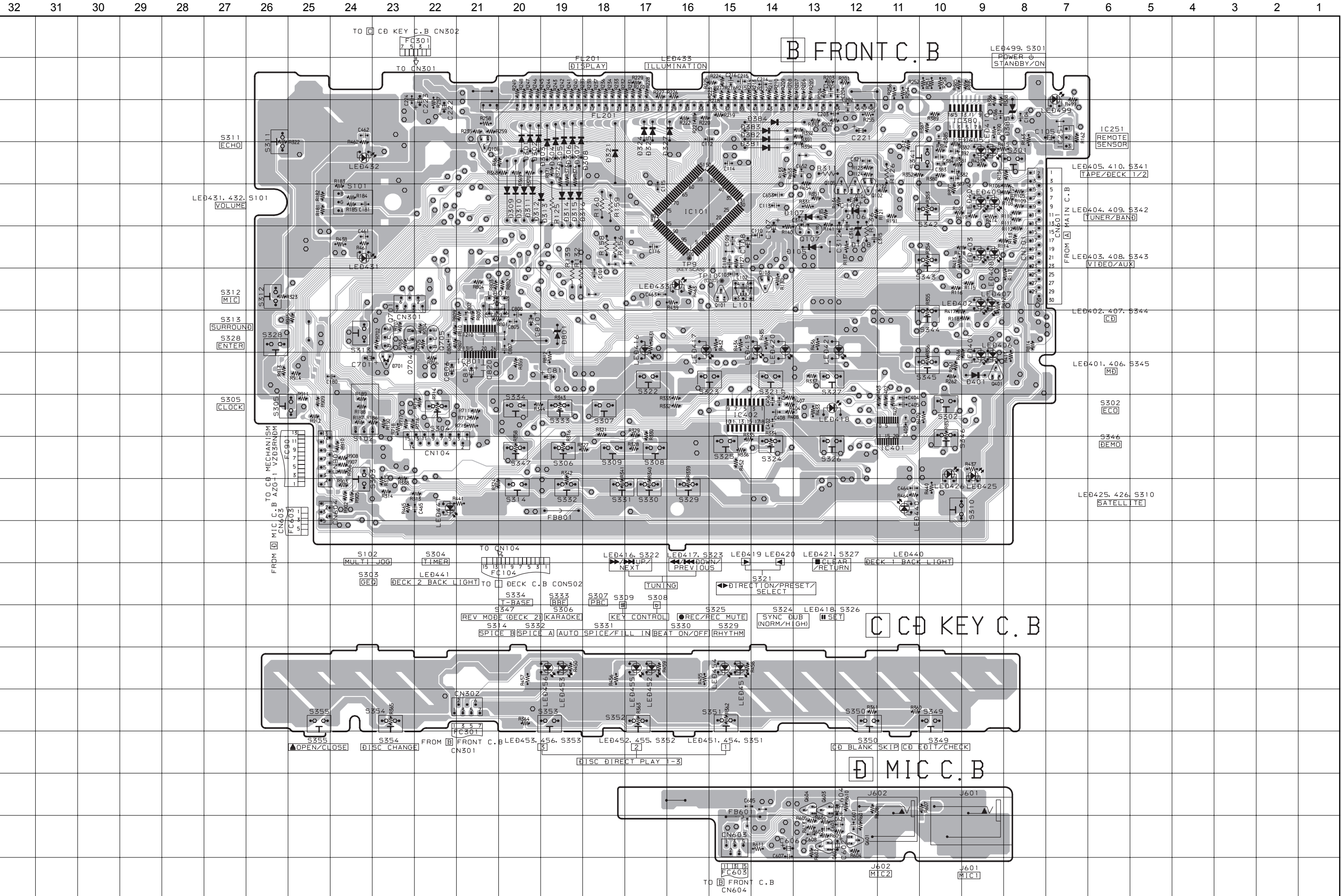


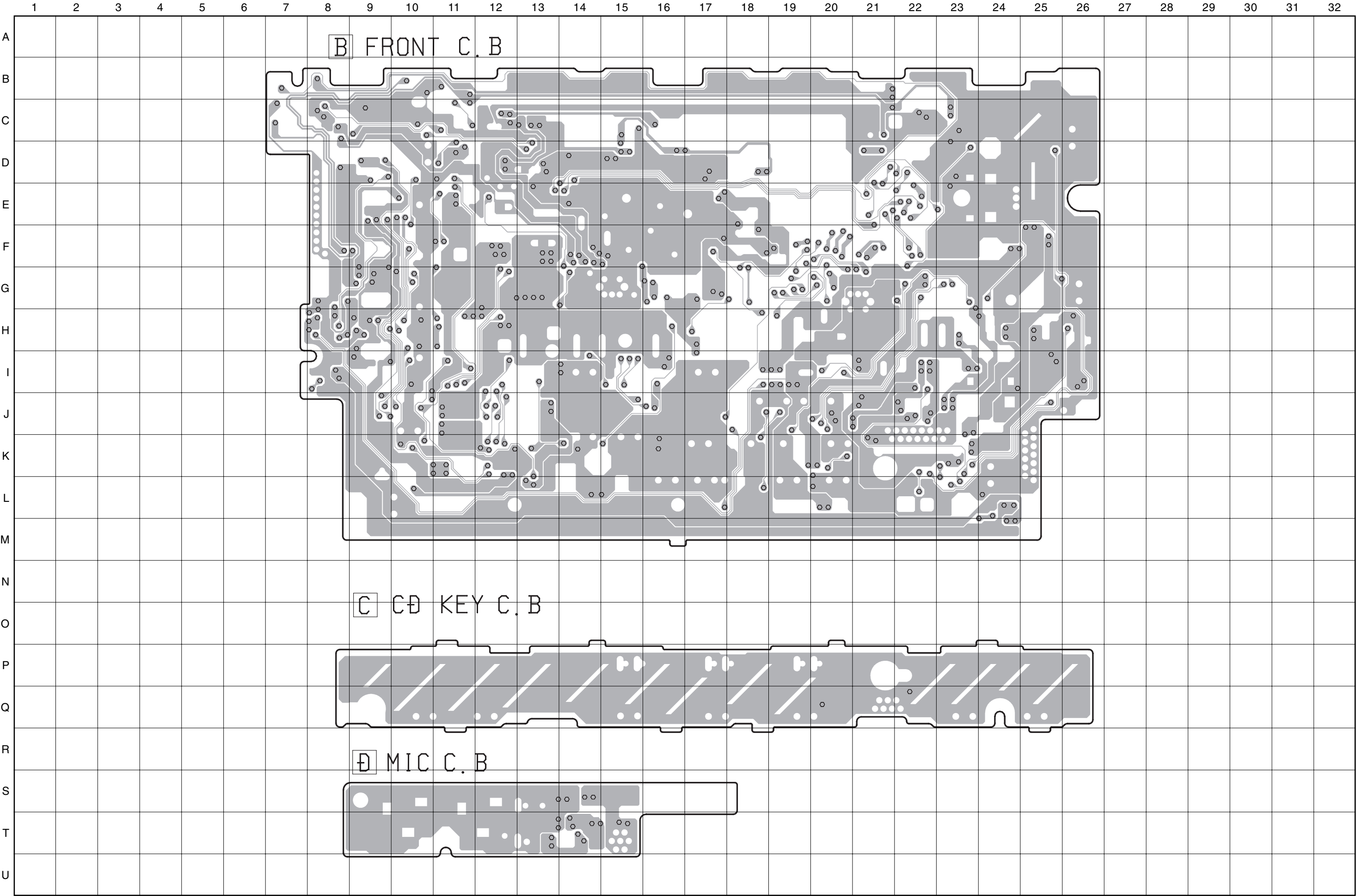
SCHEMATIC DIAGRAM-2 (MAIN 2/3: TUNER SECTION)



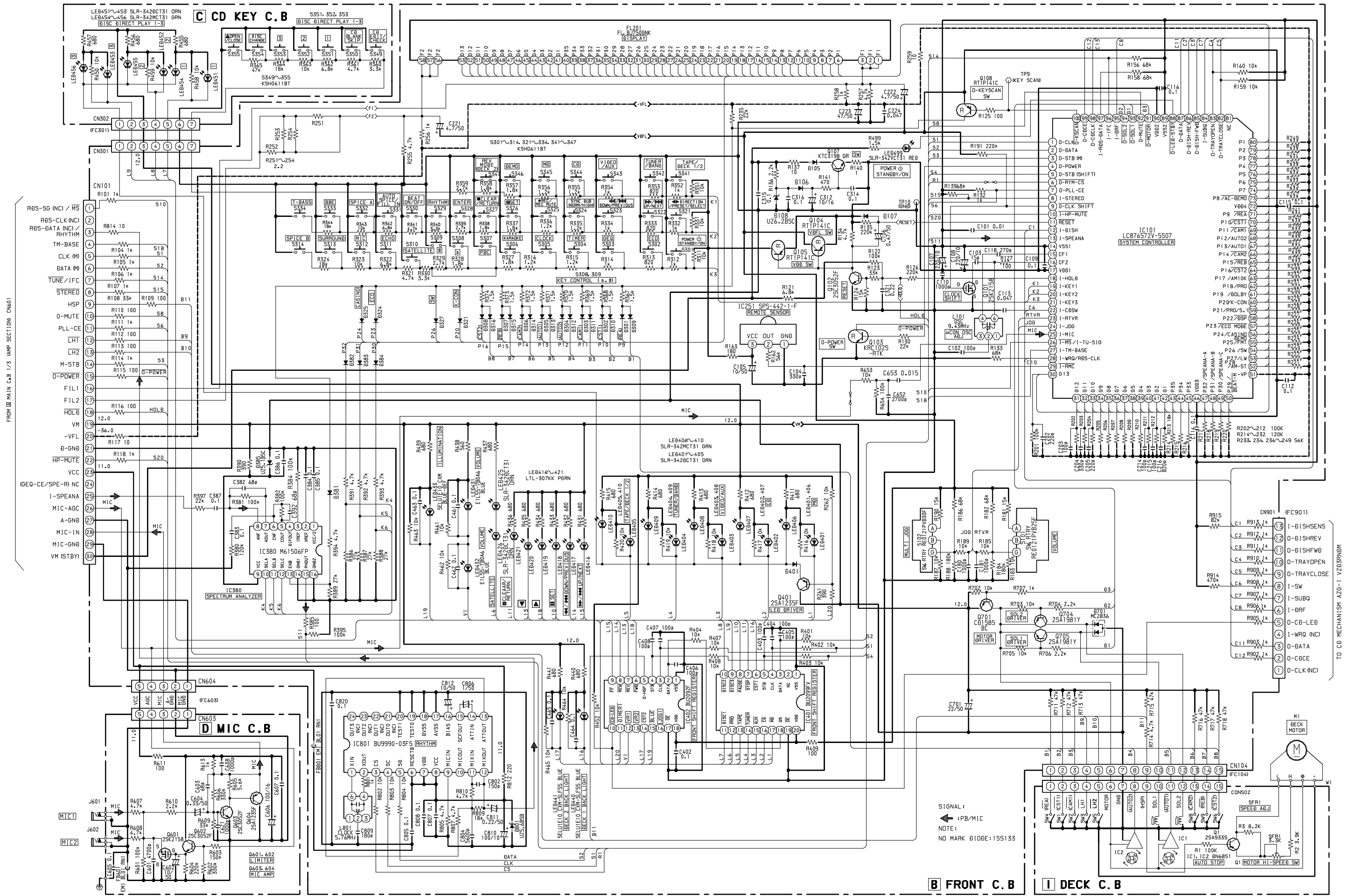
SCHEMATIC DIAGRAM – 3 (MAIN 3 / 3 : DECK SECTION / HEAD – 1 / HEAD – 2 / KEY CON)

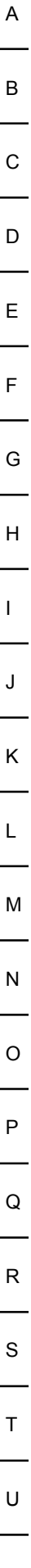




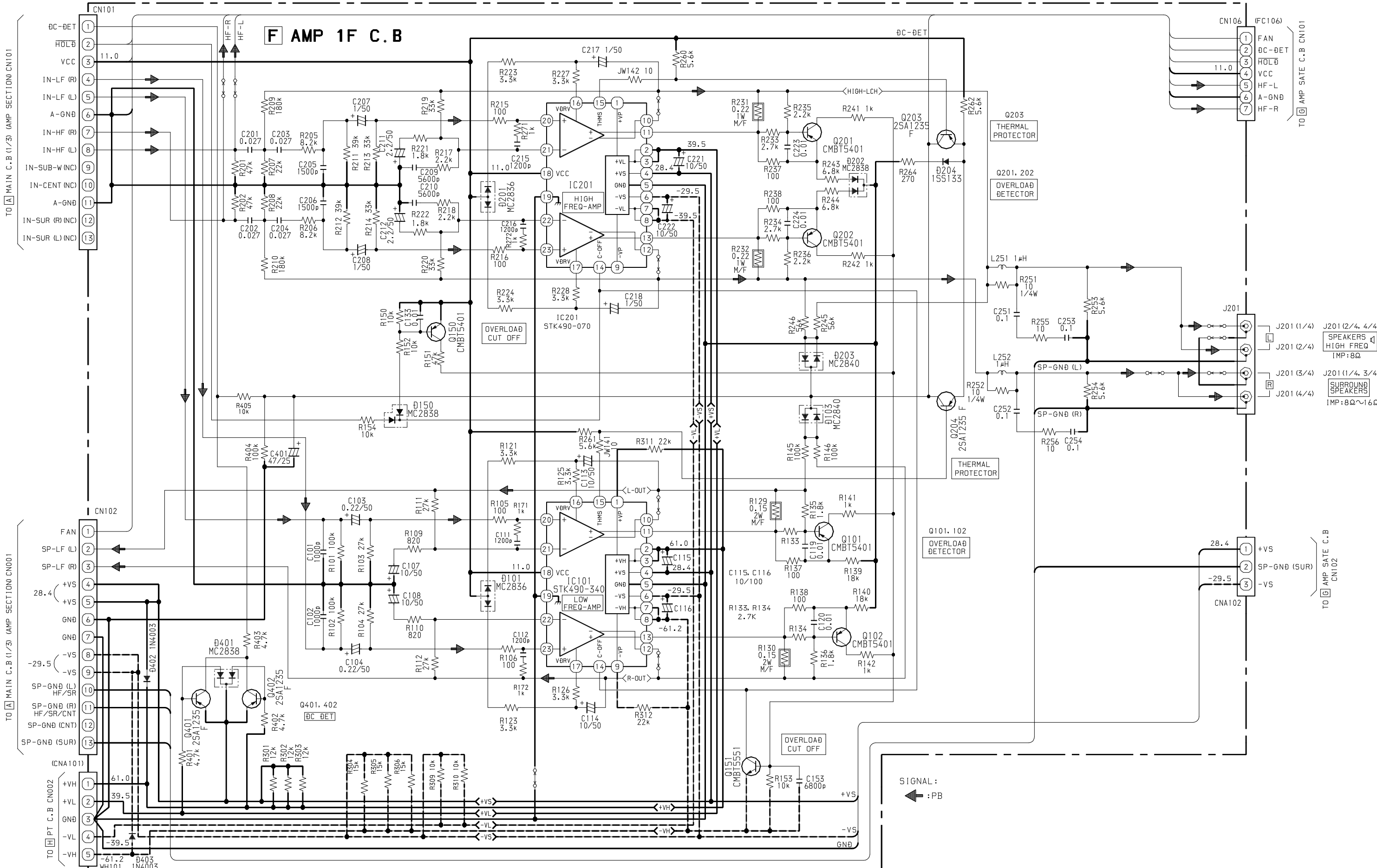


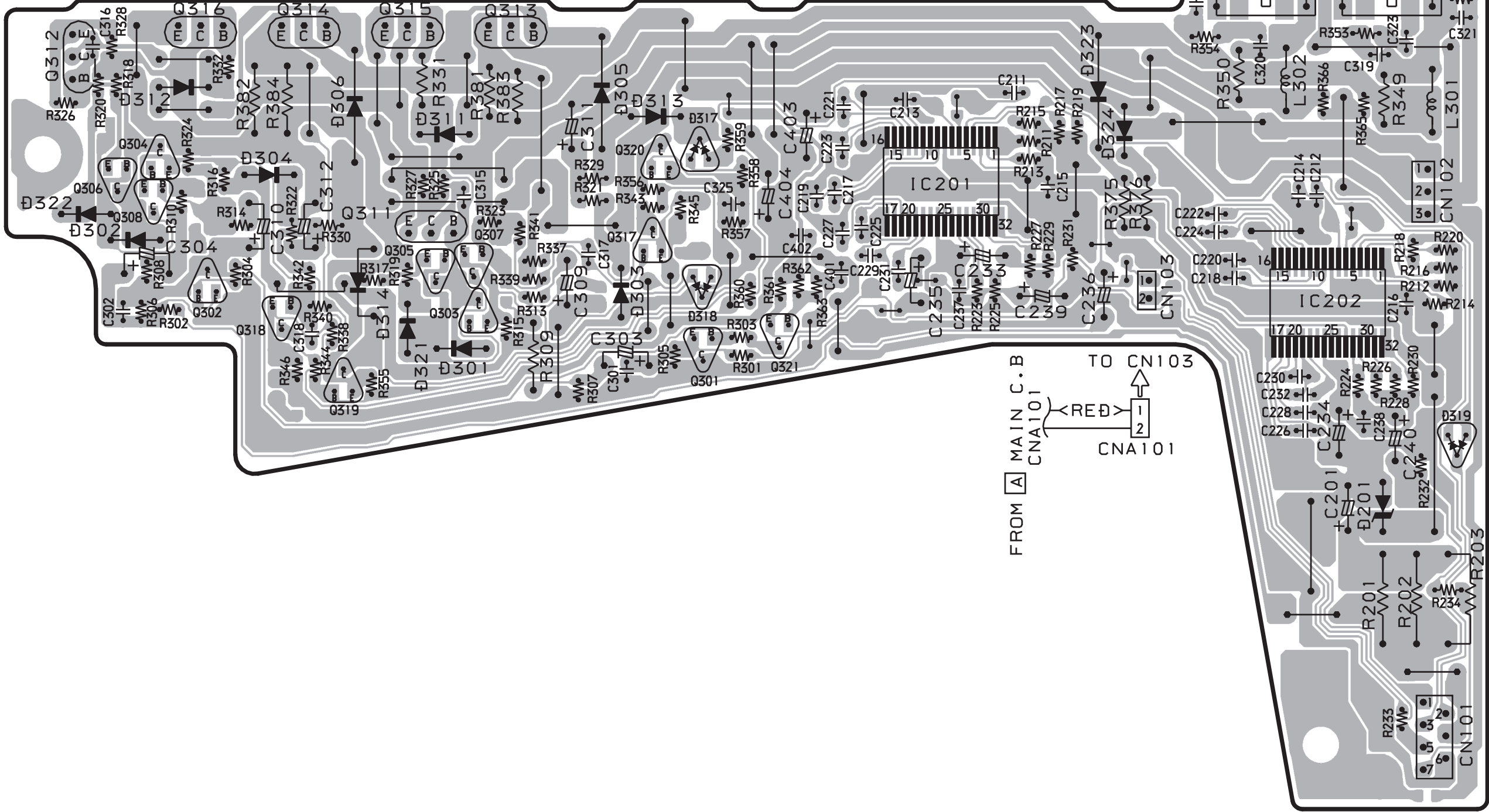
SCHEMATIC DIAGRAM - 4 (FRONT / CD KEY / MIC / DECK)



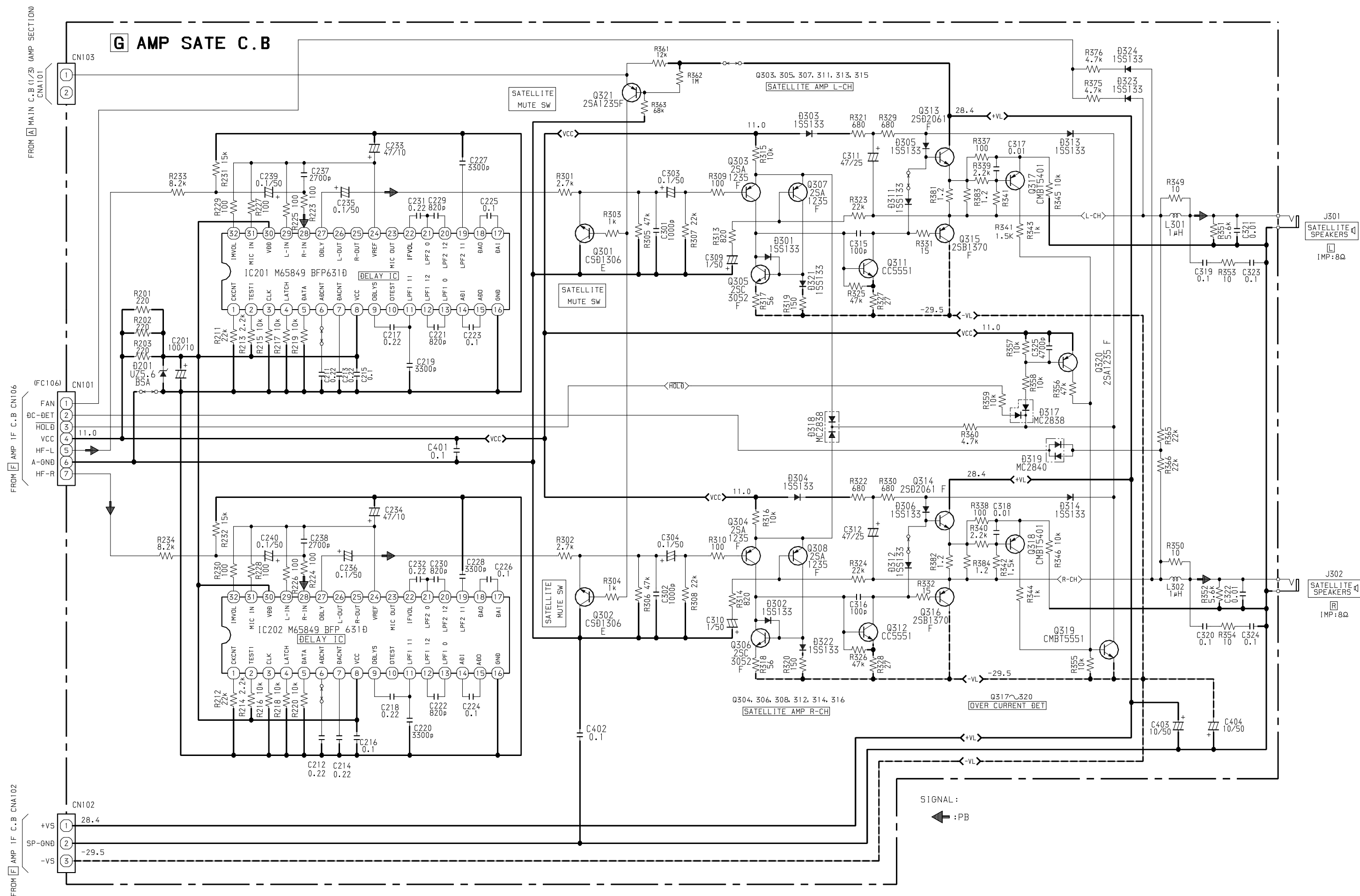


SCHEMATIC DIAGRAM – 5 (AMP 1F)

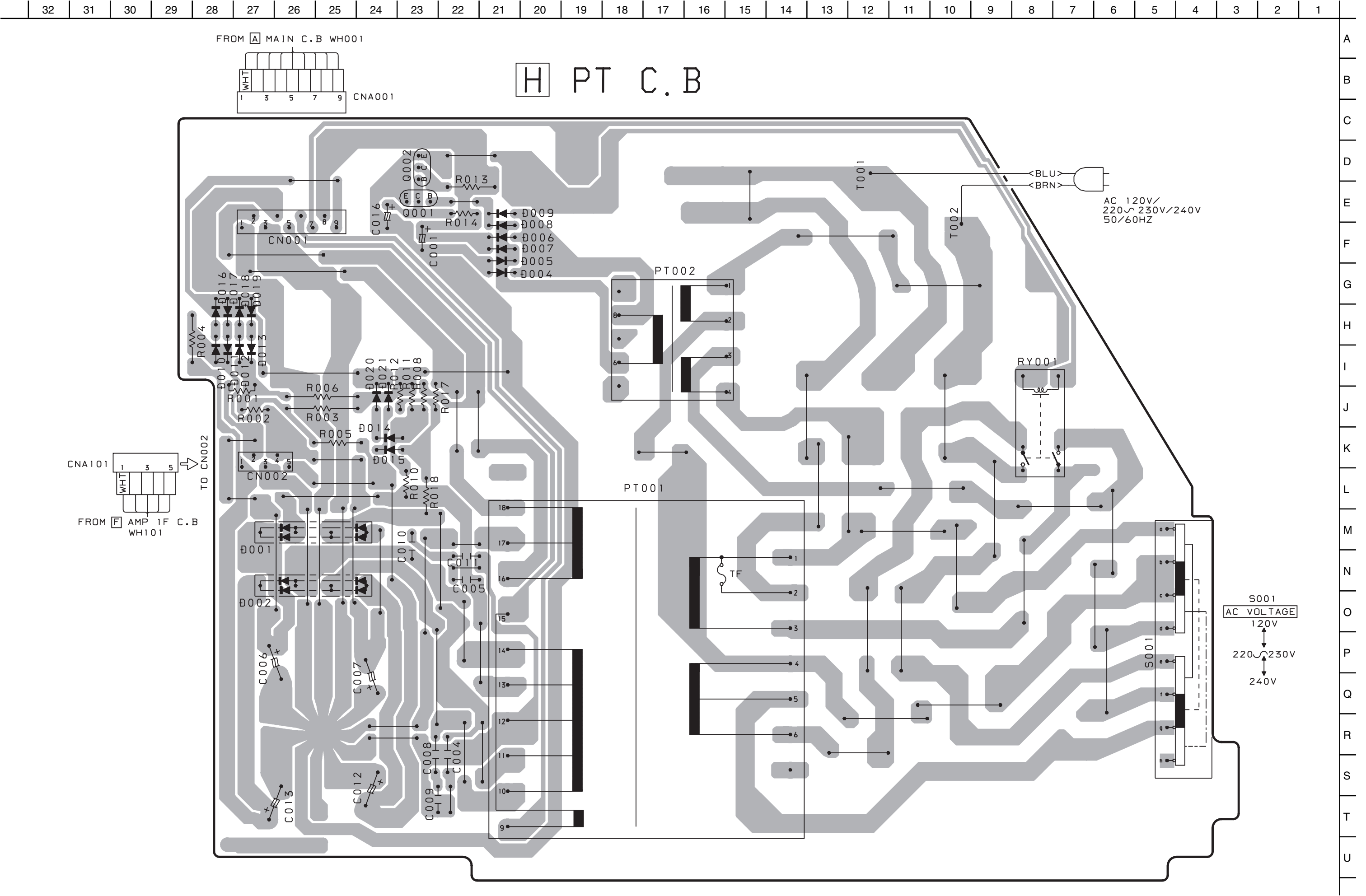




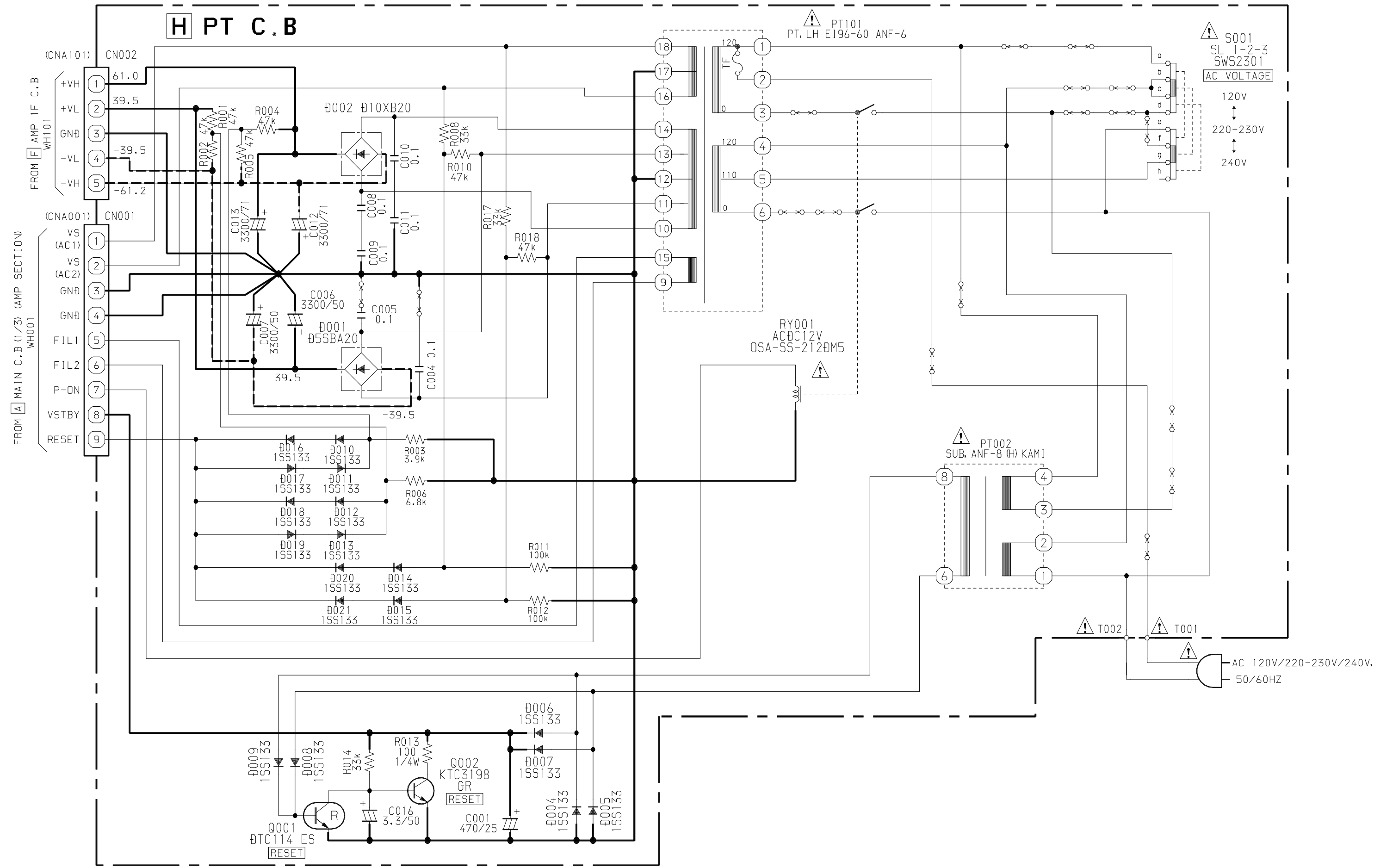
SCHEMATIC DIAGRAM – 6 (AMP SATE)



WIRING - 5 (PT)



SCHEMATIC DIAGRAM – 7 (PT)



ADJUSTMENT <TUNER / DECK / FRONT>

< TUNER SECTION >

1. Clock Frequency Check
Settings : • Test point : TP2 (CLK)
Method : Set to MW 1602kHz and check that the test point is 2052kHz $\pm$ 45Hz.
2. MW VT Adjustment
Settings : • Test point : TP1 (VT)
• Adjustment location : L953
Method : Set to MW 1602kHz and adjust L953 so that the test point becomes 8.5V $\pm$ 0.05V. Then set to MW 531kHz and check that the test point is more than 0.3V.
3. MW Tracking Adjustment
Settings : • Test point : TP8 (Lch), TP9 (Rch)
• Adjustment location :
L952 603kHz
TC941 1404kHz
Method : Set up TC941 to center before adjustment.
The level at 603kHz is adjusted to maximum by L952.
Then the level at 1404kHz is adjusted to maximum by TC941.
4. AM IF Adjustment
Settings : • Test point : TP8 (Lch), TP9 (Rch)
• Adjustment location :
L802 450kHz
Method : Adjust L802 so that the output becomes maximum.
5. SW VT Adjustment
Settings : • Test point : TP1 (VT)
• Adjustment location : L942
Method : Set to SW 17.9MHz and adjust L942 so that the test point becomes 8.0V $\pm$ 0.05V. Then set to SW 5.73MHz and check that the test point is more than 0.3V.
6. SW Tracking Adjustment
Settings : • Test point : TP8 (Lch), TP9 (Rch)
• Adjustment location :
L941 5.73MHz
TC943 17.9MHz
Method : Set up TC943 to center before adjustment.
The level at 5.73MHz is adjusted to maximum by L941.
Then the level at 17.9MHz is adjusted to maximum by TC943.
7. FM VT Check
Settings : • Test point : TP1 (VT)
Method : Set to FM 87.5MHz, 108.0MHz and check that the test point is more than 0.5V (87.5MHz) and less than 8.0V (108.0MHz).
8. FM Tracking Check
Settings : • Test point : TP8 (Lch), TP9 (Rch)
Method : Set to FM 98.0MHz and check that the test point is less than 9dB μ V.
9. DC Balance / Mono Distortion Adjustment
Settings : • Test point : TP3, TP4 (DC Balance)
: TP8 (Lch), TP9 (Rch) (Distortion)
• Adjustment location : L801
• Input level : 60dB μ V
Method : Set to FM 98.0MHz and adjust L801 so that the voltage between TP3 and TP4 becomes 0V $\pm$ 300mV with minimum distortion.

< DECK SECTION >

10. Tape Speed Adjustment (DECK 2)
Settings : • Test tape : TTA-100 (3kHz)
• Test point : TP5 (Lch), TP6 (Rch)
• Adjustment location : SFR1
Method : Play back the test tape and adjust SFR1 so that the frequency counter reads 3000Hz $\pm$ 5Hz (FWD) and FWD SPEED $\pm$ 45Hz (REV).
11. Head Azimuth Adjustment (DECK 1, DECK 2)
Settings : • Test tape : TTA-300
• Test point : TP5 (Lch), TP6 (Rch)
• Adjustment location : Azimuth adjustment screw
Method : Play back (FWD) the 10kHz signal of the test tape and adjust screw so that the output becomes maximum.
Next, perform on REV PLAY mode.
12. PB Frequency Response Check (DECK 1, DECK 2)
Settings : • Test tape : TTA-330
• Test point : TP5 (Lch), TP6 (Rch)
Method : Play back the 315Hz and 10kHz signals of the test tape and check that the output ratio of the 10kHz signal with respect to that of the 315Hz signal is 0dB $\pm$ 3dB.
13. PB Sensitivity Check (DECK 1, DECK 2)
Settings : • Test tape : TTA-200 (400Hz)
• Test point : TP5 (Lch), TP6 (Rch)
Method : Play back the test tape and check that the output level of the test point is 280mV $\pm$ 3dB.
14. REC/PB Frequency Response Adjustment (DECK 2)
Settings : • Test tape : TTA-602
• Test point : TP5 (Lch), TP6 (Rch)
• Input signal : 1kHz / 10kHz (LINE IN)
• Adjustment location : SFR351 (Lch)
SFR352 (Rch)
Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP5, TP6 becomes 28mV. Record and play back the 1kHz and 10kHz signals and adjust SFRs so that the output level of the 10kHz signal becomes 0dB $\pm$ 1dB with respect to that of the 1kHz signal.
15. REC/PB Sensitivity Check (DECK 2)
Settings : • Test tape : TTA-602
• Test point : TP5 (Lch), TP6 (Rch)
• Input signal : 10kHz (LINE IN)
Method : Apply a 10kHz signal and REC mode. Then adjust OSC attenuator so that the output level at TP5, TP6 becomes 280mV. Record and play back the 10kHz signal and check that the output is -1dB $\pm$ 3dB.

< FRONT SECTION >

1. μ -CON OSC Adjustment
Settings : • Test point : TP9 (KEY SCAN) and TP10 (GND)
• Adjustment location : L101
Method : Insert AC plug while pressing TUNER function key and POWER key. Adjust L101 so that the frequency at the test point becomes 208.80Hz $\pm$ 0.2Hz.

CD TEST MODE

1. How to Activate CD Test Mode

Insert the AC plug while pressing the function CD button.
All FL display tubes will light up, and the test mode will be activated.

2. How to Cancel CD Test Mode

Either one of the following operations will cancel the CD test mode.

- Press the function button.
- Press the power switch button. (except CD function button)
- Disconnect the AC plug

3. CD Test Mode Functions

When test mode is activated, the following mode functions from No.1 to No.5 can be used by pressing the operation keys.

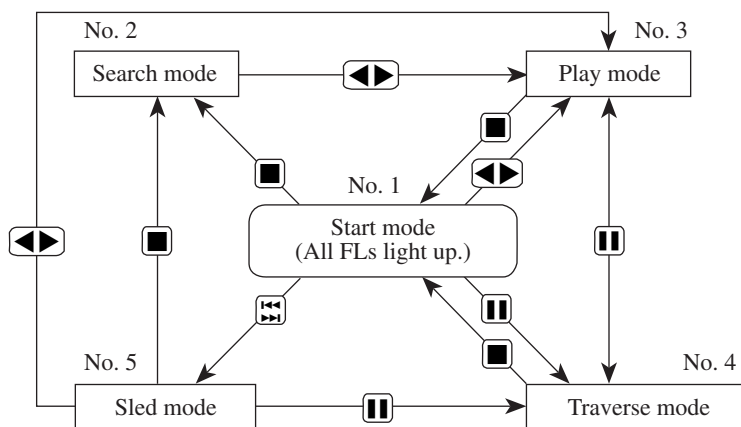
Mode/No.	Operation	FL display	Operation	Contents
Start mode No.1	Activation	All lamps light	• Test mode is activated. • CD block power is ON.	• FL display check (All displays light.)
Search mode No.2	■ key		• Laser diode turns always ON. • Continual focus search (The pickup lens repeats the full-swing up-down motion.) * Avoid continual searches that last for more than 10 minutes. * NOTE 1	• APC circuit check • Laser current measurement (Laser current control. Across a resistor connected between emitter and GND.) FOCUS SERVO • Check focus search waveform • Check focus error waveform (DRF/FZC are not monitored in the search mode)
Play mode No.3	◀▶ key		• Normal playback • Focus search is continued if TOC cannot be read. * NOTE 1	FOCUS SERVO/TRACKING SERVO CLV SERVO/SLED SERVO Check DRF
Traverse mode No.4	key		• During normal disc playback Press once; tracking servo OFF Press twice; tracking servo ON	TRACKING SERVO ON/OFF Tracking balance (traverse) check
Sled mode No.5	◀◀ key ▶▶ key	All lamps light	• Pickup moves to the outermost track • Pickup moves to the innermost track * NOTE 2 (During playback, machine operates normally.)	SLED SERVO Check SLED mechanism operation

* NOTE 1: There are cases when the tracking servo cannot be locked owing to the protection circuit being operated when heat builds up in the driver IC if the focus search is operated continually for more than 10 minutes. In these cases the power supply should be switched off for 10 minutes until heat has been reduced and then re-started.

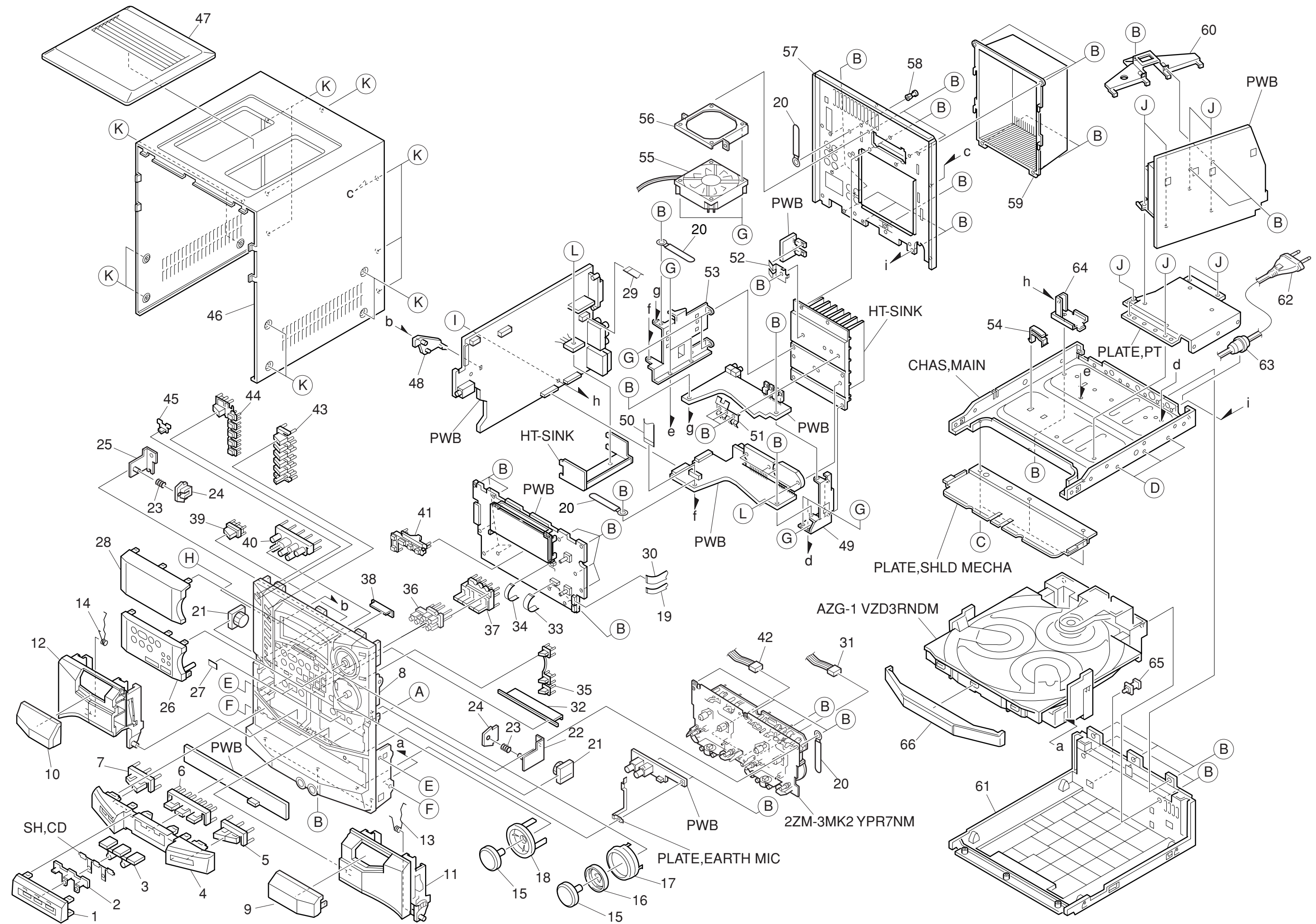
* NOTE 2: When pressing the◀◀ or ▶▶ keys, take care to avoid damage to the gears. Because the sled motor is activated when the◀◀ or ▶▶ keys are pressed, even when the pick-up is at the outermost or innermost track.

4. Operation Outline

The operation of each mode is carried out in the direction of the arrows from the start mode as indicated in the following illustration.



If the DISC DIRECT PLAY button is pressed, the machine performs the same operation as the PLAY button is pressed as shown. If the tray is opened by pressing OPEN/CLOSE button during Play mode or Traverse mode, the machine returns to the Start mode.

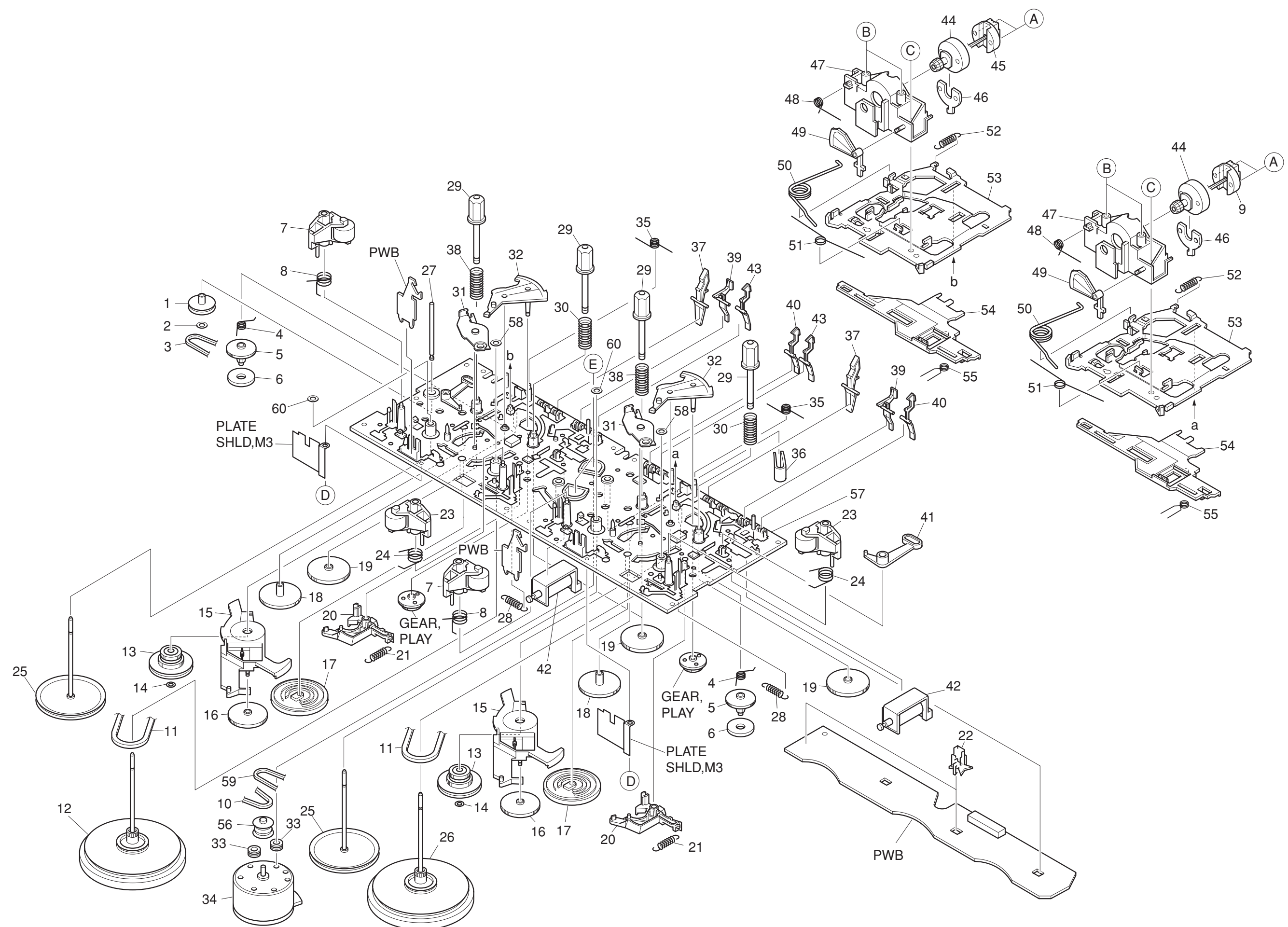


MECHANICAL PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-NF6-010-010		PANEL,DIRECT	41	8A-NF6-203-010		GUIDE,OPE
2	8A-NF6-044-010		REFLECTOR,CD	42	87-NF6-615-010		CONN ASSY,3P PB
3	8A-NF6-205-010		GUIDE,CD	43	8A-NF6-023-010		KEY,ASSY FUN
4	8A-NF6-009-110		PANEL,CD	44	8A-NF6-045-010		KEY,ASSY POWER
5	8A-NF6-037-110		KEY,CD OPEN	45	8A-NF6-042-010		REFLECTOR,ECO
6	8A-NF6-104-010		KEY,CD DIRECT 2	46	8A-NH6-019-010		CABI,STEEL ANH-6
7	8A-NF6-036-010		KEY,CD EDIT	47	8A-NF6-005-010		PANEL,TOP
8	8A-NF6-002-110		CABI,FR H	48	8A-NF8-206-010		HLDR,PWB M
9	8A-NF6-019-010		WINDOW,CASS 2	49	8A-NF6-214-010		HLDR,HT-SINK R
10	8A-NF6-018-010		WINDOW,CASS 1	50	88-907-151-110		FF-CABLE, 7P 1.25 150MM
11	8A-NF6-007-110		BOX,CASS 2	51	8A-NF6-210-110		HLDR,IC6
12	8A-NF6-006-110		BOX,CASS 1	52	8A-NF7-226-110		HLDR,IC2-T2
13	82-NF5-219-010		SPR-T,EJECT 2 (SIN)	53	8A-NF6-213-010		HLDR,HT-SINK L
14	82-NF5-218-010		SPR-T,EJECT 1 (SIN)	54	87-NF4-221-010		HLDR,CABLE
15	8A-NF6-030-010		KNOB,RTRY JOG	55	87-A91-711-010		FAN, 3110GL-B4W-B34-H02 -400MM
16	8A-NF6-040-010		REFLECTOR,VOL	56	8A-NF6-219-010		HLDR,FAN
17	8A-NF6-041-010		RING,VOL	57	8A-NH6-011-010		PANEL,REAR HR
18	8A-NF6-029-010		KEY,GEQ	58	87-084-077-010		NYLON RIVET, 3.5-4.5
19	88-905-281-110		FF-CABLE, 5P 1.25 280MM	59	8A-NH6-023-010		COVER, REAR HRJSM87
20	87-064-185-010		HLDR,WIRE	60	8A-NF6-228-010		HLDR,PWB PT 96-75
21	8Z-NF6-210-010		DMPR,150 N	61	8A-NH6-007-010		CABI,BOTTOM VCD
22	87-NF4-217-110		HLDR,LOCK 2	62	87-A80-157-010		AC CORD ASSY,E BLK CC
23	86-NF9-224-010		SPR-C,LOCK	63	87-085-185-010		BUSHING, AC CORD (E)
24	82-NF5-229-010		PLATE,LOCK	64	8A-NF7-209-010		HLDR,PWB-M BTM
25	87-NF4-216-010		HLDR,LOCK 1	65	84-ZG1-245-210		CAP,OPTICAL
26	8A-NH6-006-010		PANEL,FR H	66	8A-NH6-002-010		PANEL,TRAY H
27	81-532-080-010		LABEL, CASS. COMPT	A	87-067-758-010		BVT2+3-12 W/O SLOT
28	8A-NH6-020-010		WINDOW,DISP H 87	B	87-067-703-010		TAPPING SCREW, BVT2+3-10
29	88-906-621-110		FF-CABLE,6P 1.25 620MM	C	87-067-688-010		BVT2+3-6
30	88-913-521-110		FF-CABLE,13P 1.25 520MM	D	87-591-095-410		TAPPING SCREW, QIT+3-8 (GLD)
31	87-NF6-616-010		CONN ASSY,8P RPB	E	87-591-094-410		TAPPING SCREW, QIT+3-6
32	8A-NF6-039-010		REFLECTOR,DECK	F	87-721-097-410		QT2+3-12 GLD
33	88-915-111-110		FF-CABLE,15P 1.25	G	87-067-579-010		TAPPING SCREW, BVT2+3-8
34	88-907-421-110		FF-CABLE,7P 1.25 420MM	H	87-723-096-410		QT2+3-10W/O SLOT BL
35	8A-NF6-022-010		KEY,ECHO	I	87-NF4-224-010		S-SCREW,IT3B+3-8 CU
36	8A-NH6-101-010		KEY,BBE ANH-6 2	J	87-067-975-010		S-SCREW,IT+4-8
37	8A-NF6-103-010		KEY,SPICE 2	K	87-B10-091-010		UTT2+3-10 W/O BLK
38	8A-NF6-038-010		REFLECTOR,FL	L	87-067-581-010		TAPPING SCREW, BVT2+3-15
39	8A-NFT-007-010		KEY,ASSY PRO				
40	8A-NF6-026-010		KEY,ASSY OPE				

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange	GM	Metallic Green
YM	Metallic Yellow	DM	Metallic Orange	PT	Transparent Pink
LA	Aqua Blue	GL	Light Green		



TAPE MECHANISM PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	82-ZM3-335-310		PULLEY, COUPLER M3	36	82-ZM3-340-010		SH, BELT D2
2	87-B10-043-010		W-P, 0.99-4-0.25 SLT	37	82-ZM1-242-010		LVR, CAS
3	86-ZM1-206-010		BELT, MAIN L	38	82-ZM1-244-510		SPR-C, BT
4	82-ZM1-322-010		SPR-T, FR 60	39	82-ZM1-243-010		LVR, STOP
5	82-ZM1-220-210		GEAR, IDLER	40	82-ZM1-240-110		LVR, REC (*)
6	82-ZM3-616-010		RING MAGNET 4	41	82-ZM1-264-010		LVR, EJECT R
7	82-ZM3-348-010		LEVER ASSY, PINCH YL	42	82-ZM3-621-110		SOL ASSY 27 KO
8	82-ZM1-258-210		SPR-T, PINCH L	43	82-ZM1-241-310		LVR, MC
9	87-A91-195-110		HEAD, RPH KC9142 FPC	44	82-ZM1-208-310		HLD, HEAD
10	82-ZM3-342-010		BELT, SBU MOT 3	45	87-A91-196-110		HEAD, PH KP9142 FPC
11	82-ZM1-338-110		BELT, FR 4	46	82-ZM1-314-110		PLATE, HEAD
12	09-001-420-010		FLY-WHL, R ASSY	47	82-ZM1-207-910		GUIDE, TAPE
13	82-ZM3-333-310		SLIP DISK ASSY 2	48	82-ZM3-353-010		SPR-T, HEAD 2
14	82-ZM3-334-010		PW 2.16-6-0.4	49	82-ZM1-210-110		GEAR, H T
15	82-ZM3-306-110		LVR, FR M2	50	82-ZM1-219-110		SPR-T, LINK
16	82-ZM1-225-210		GEAR, FR	51	82-ZM1-269-210		SPR-T, BRG
17	82-ZM3-305-310		GEAR, CAM M2 (*)	52	82-ZM1-218-010		SPR-E, HB
18	82-ZM1-226-010		GEAR, REW	53	82-ZM1-206-910		CHAS, HEAD
19	82-ZM1-216-510		GEAR, REEL	54	82-ZM1-266-310		LVR, DIR
20	82-ZM1-227-310		LVR, TRIG	55	82-ZM1-214-010		SPR-T, DIR
21	82-ZM1-265-310		SPR-E, TRIG	56	82-ZM3-221-210		PULLEY, MOT 2M
22	82-ZM3-351-010		HLD, IC 2	57	82-ZM3-301-610		CHAS ASSY, M2
23	82-ZM3-343-010		LEVER ASSY, PINCH YR	58	80-ZM6-243-010		SH 1.75-3.6-0.5 SLT
24	82-ZM1-259-210		SPR-T, PINCH R	59	82-ZM3-329-410		BELT, SBU R2
25	82-ZM1-234-310		FLY-WHL, L ASSY	60	82-ZM1-288-010		SH, 1.63-3.2-0.5 SLT
26	82-ZM1-237-610		FLY-WHL, R ASSY	A	80-ZM6-207-010		V+1.6-7
27	82-ZM3-339-110		SHAFT, COUPLER N3	B	86-ZM4-206-110		S-SCREW, AZIMUTH L
28	82-ZM1-255-310		SPR-E, LVR DIR	C	85-ZM3-202-010		S-SCREW, TG
29	82-ZM1-217-410		REEL TABLE	D	82-ZM3-222-010		S-SCREW, SHIELD PLATE
30	82-ZM1-285-410		SPR-C, BT L	E	82-ZM3-318-110		S-SCREW W, MOTOR M2
31	82-ZM1-333-210		PLATE, LINK2				
32	82-ZM1-222-310		LVR, PLAY (*)				
33	82-ZM3-307-010		CUSH-G, DIA 3.7-8-3.2				
34	87-045-347-010		MOT, SHU2L 70				
35	82-ZM1-257-010		SPR-T, CAS				

SPEAKER PARTS LIST (SX-WNH83) <YJMK1AL, YJMK1BL>

Note : This SX-WNH83 speaker contains SX-S80 (satellite speaker)

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-NSY-001-010		PANEL, FR R
2	8A-NSY-002-010		PANEL, FR L
3	8A-NSY-003-010		PANEL, BA R
4	8A-NSY-004-010		PANEL, BA L
5	8A-NSY-005-010		GRILLE, FRAME ASSY
6	8A-NS6-602-010		SPKR, W 200
7	8A-NS0-604-010		SPKR, M 120
8	88-NSK-610-010		SPKR, CERAMIC ASSY
9	88-NS5-610-010		CORD, SPKR
10	88-NS5-611-010		CORD, SPKR B/L
11	8A-NS8-013-010		FASTNER, C
12	8A-NS3-037-010		FOOT, ASSY
13	88-NS3-024-010		UT1 4*16 BZN
14	8A-NSY-011-010		RING, W
15	8A-NSY-012-010		COVER, REAR
16	8A-NS6-002-010		PANEL, FR (SX-S80)
17	8A-NS6-004-010		GRILLE, FRAME ASSY (SX-S80)
18	8A-NS6-610-010		CORD 3.5 (SX-S80)
19	8A-NS6-606-010		SPKR, 80 (SX-S80)
20	8A-NS2-020-010		FOOT, 2*10

ACCESSORIES / PACKAGE LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-NH6-934-010		IB, HR-KIT (IND) VC87
7	87-A80-167-010		CORD, PIN 1PY 150CM

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